

FIG.1

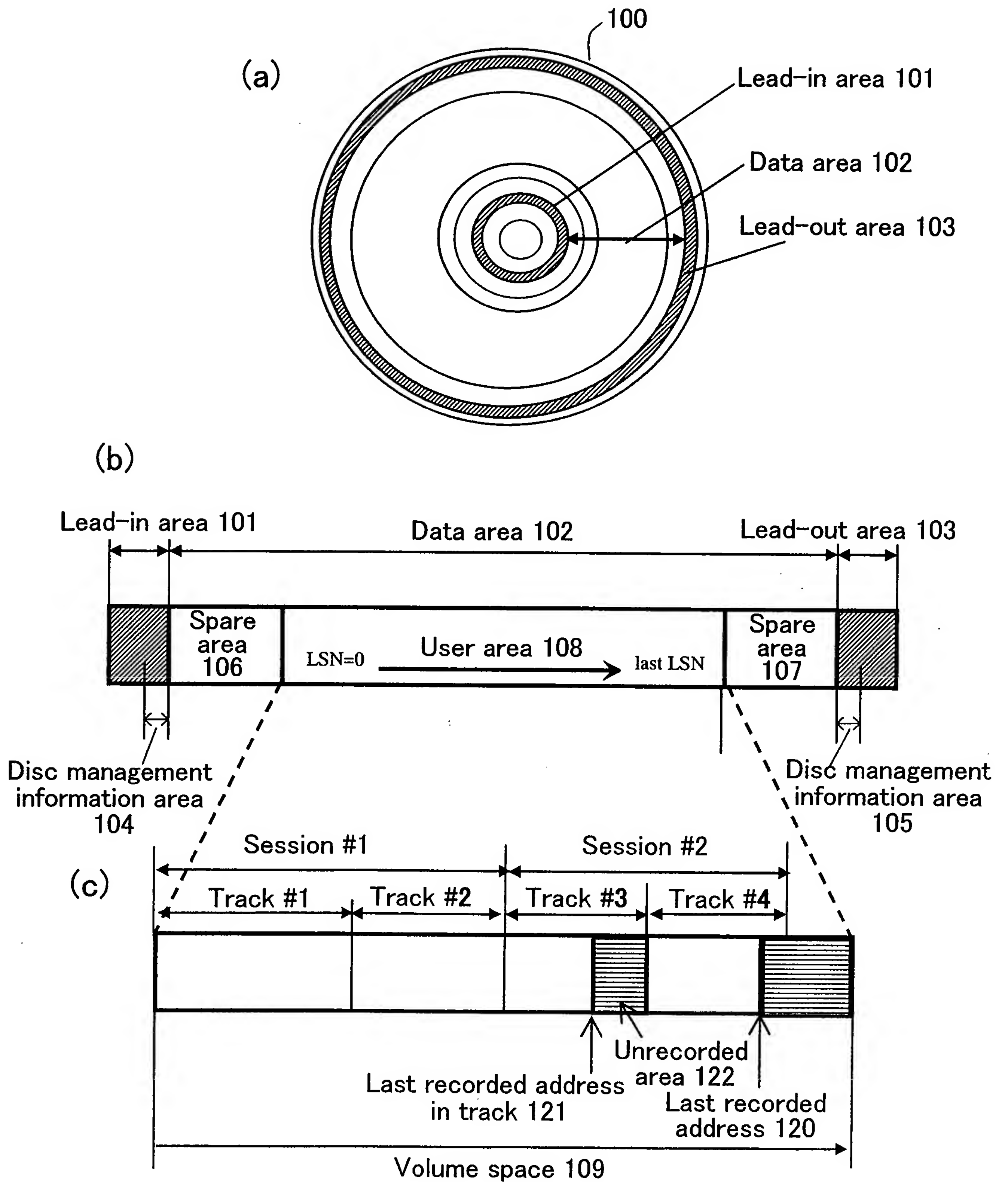
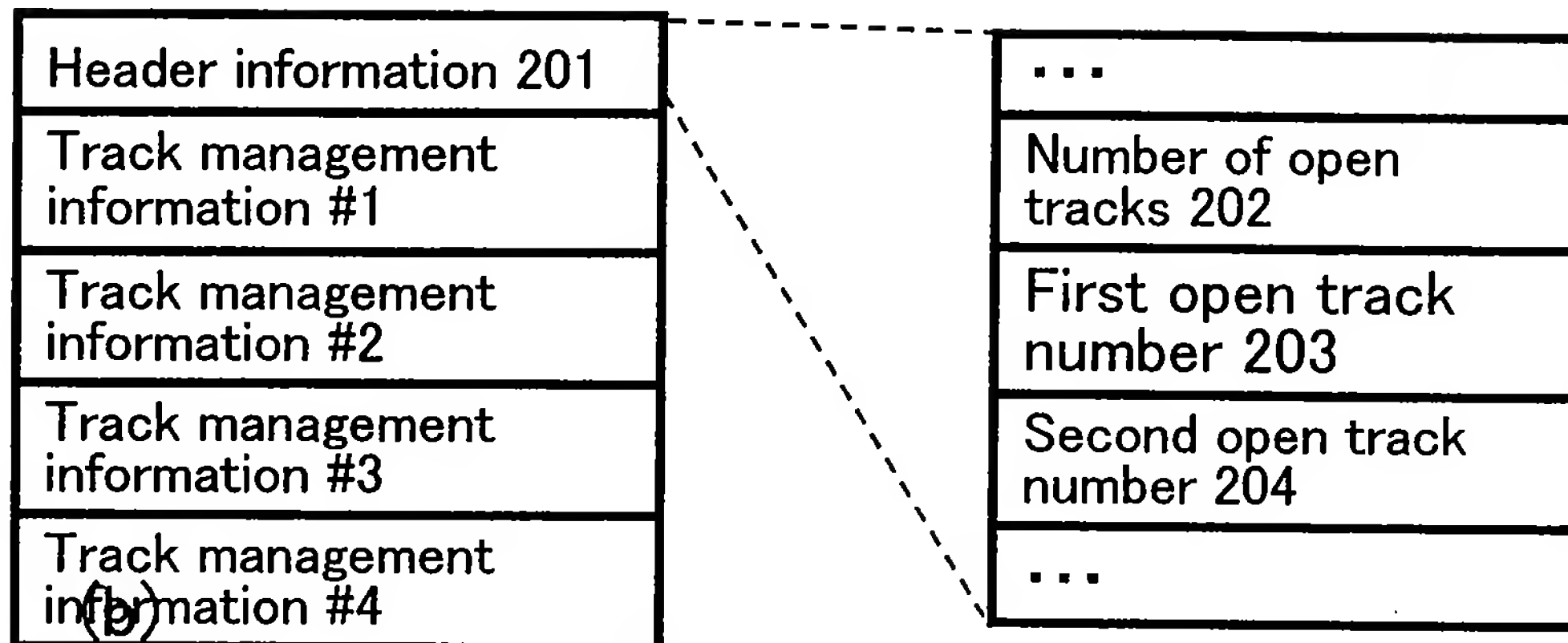


FIG.2

(a) Session management information 200



(b) Track management information 210

| |
|---------------------------------------|
| Session start information 211 |
| Track start location information 212 |
| Last recorded address information 213 |

(c) Space bitmap management information 220

| |
|------------------------------|
| Header information 221 |
| Managed area information 222 |
| Space bitmap information 223 |

FIG.3A

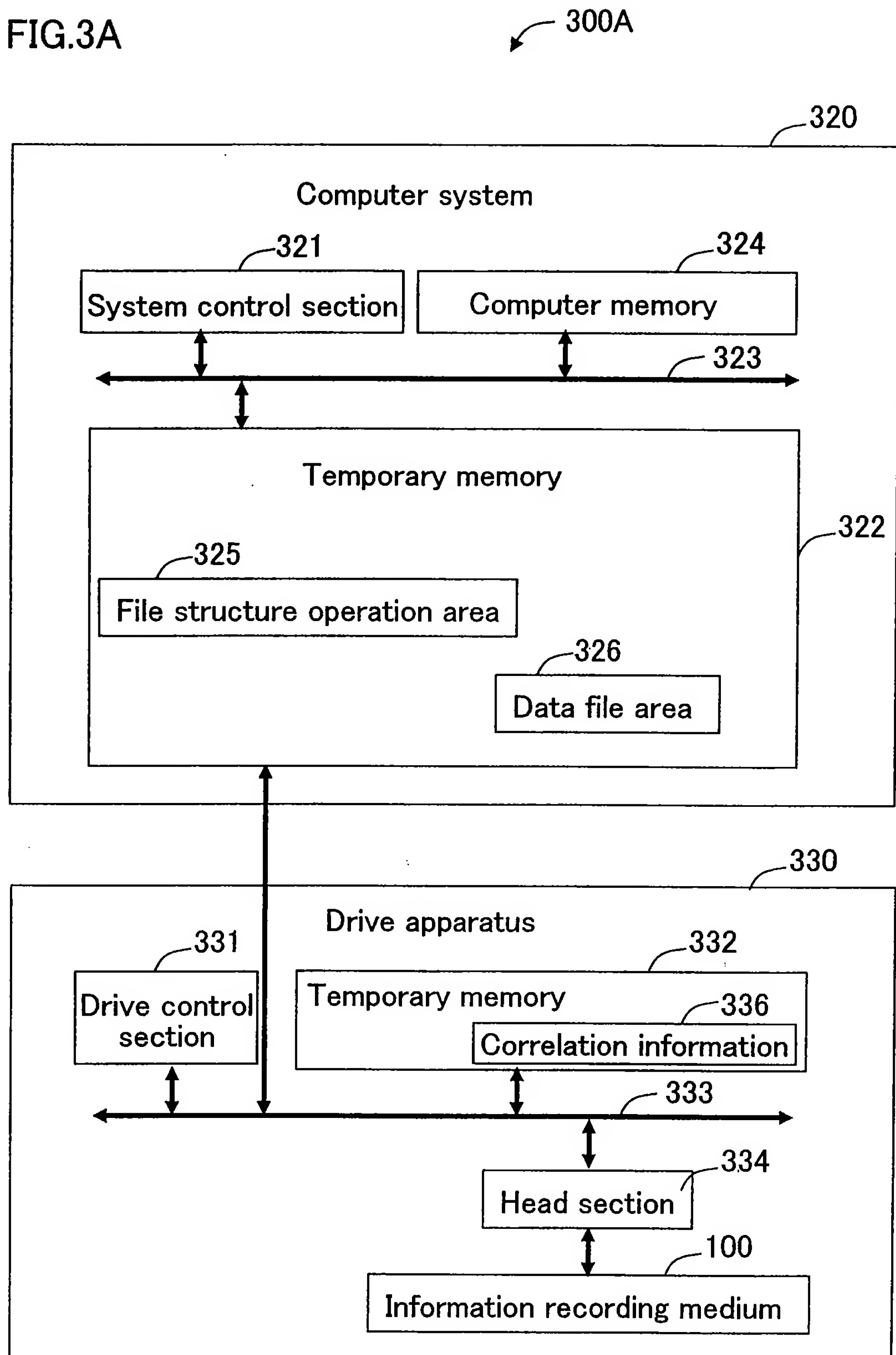


FIG.3B

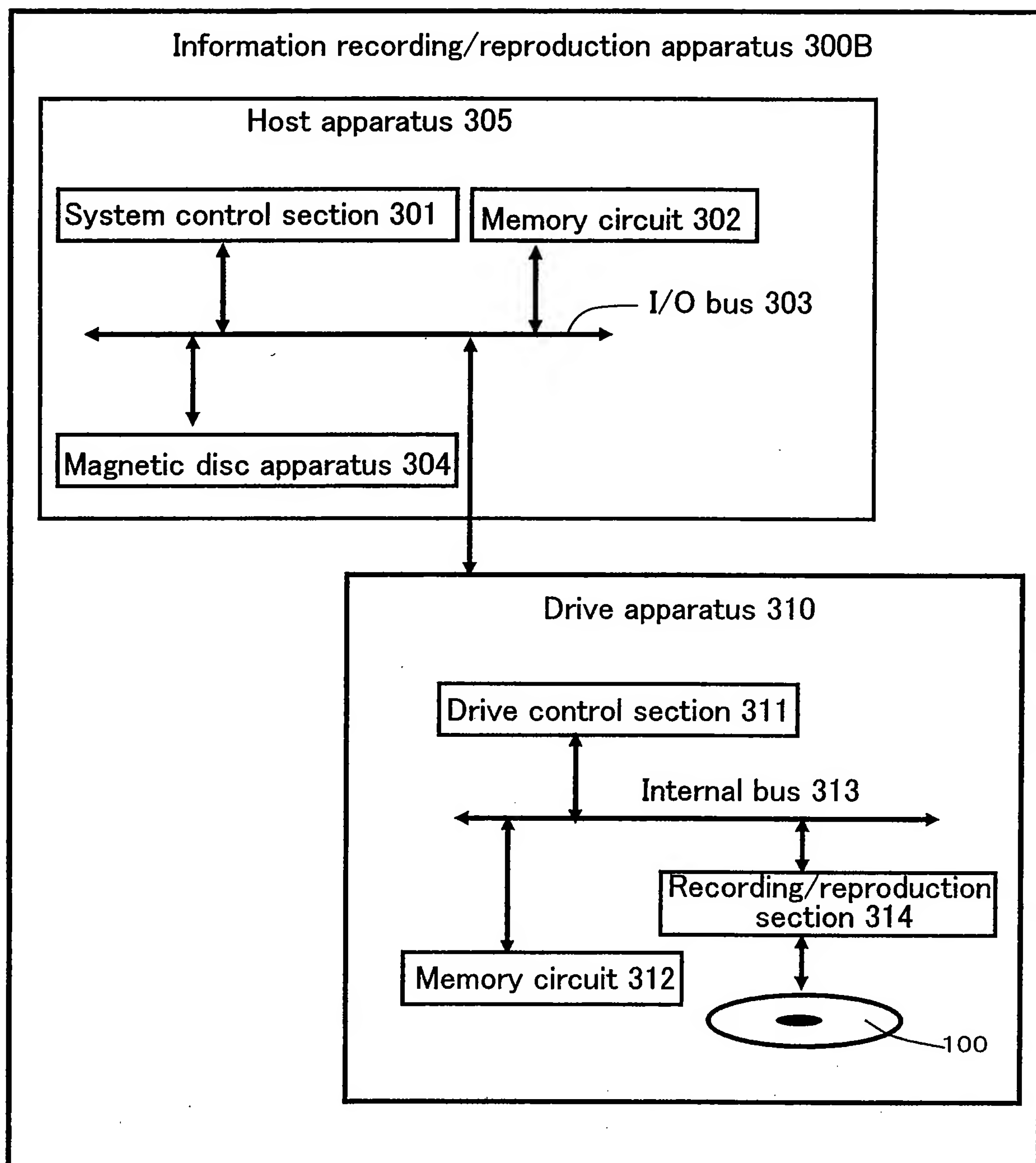


FIG.4A

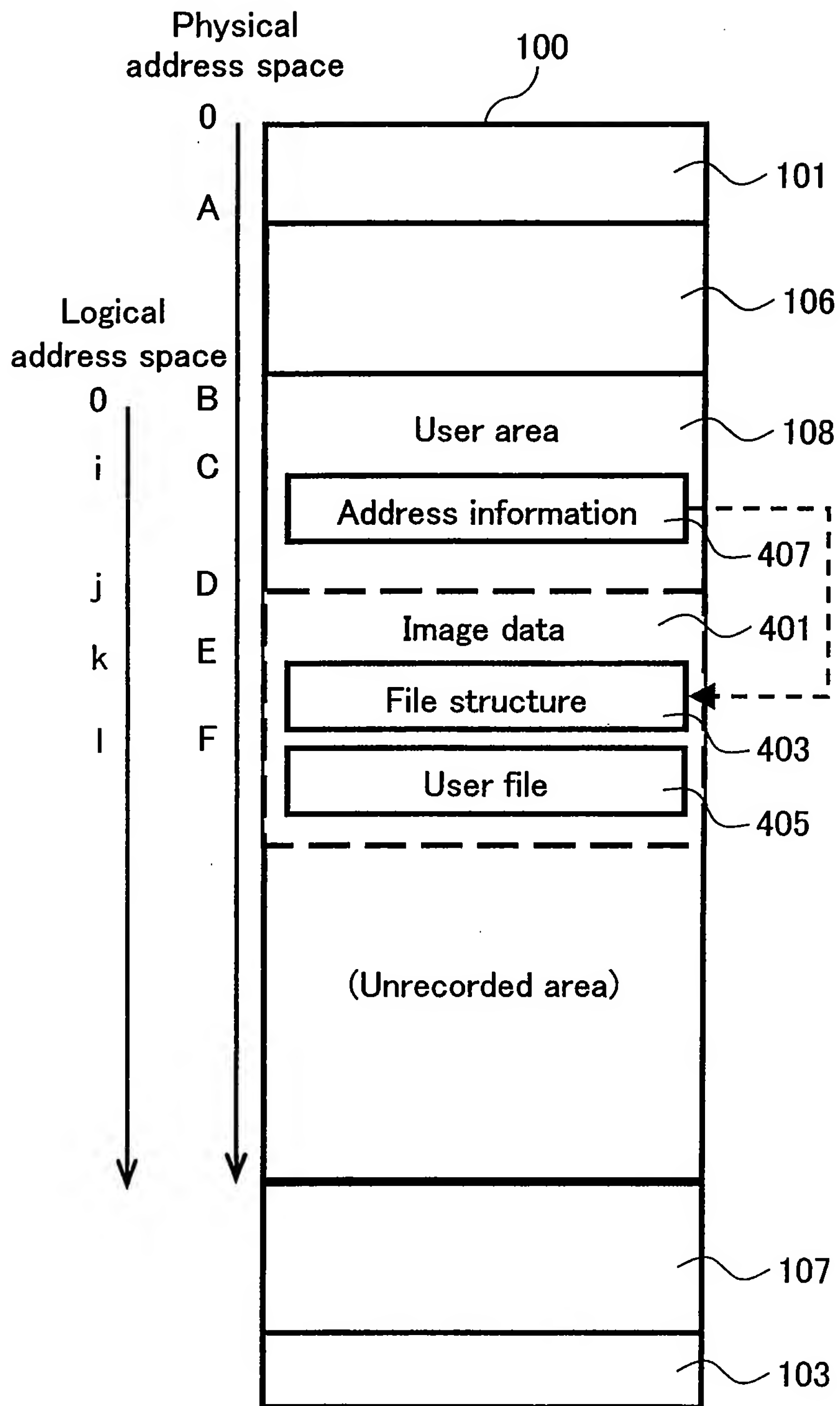


FIG.4B

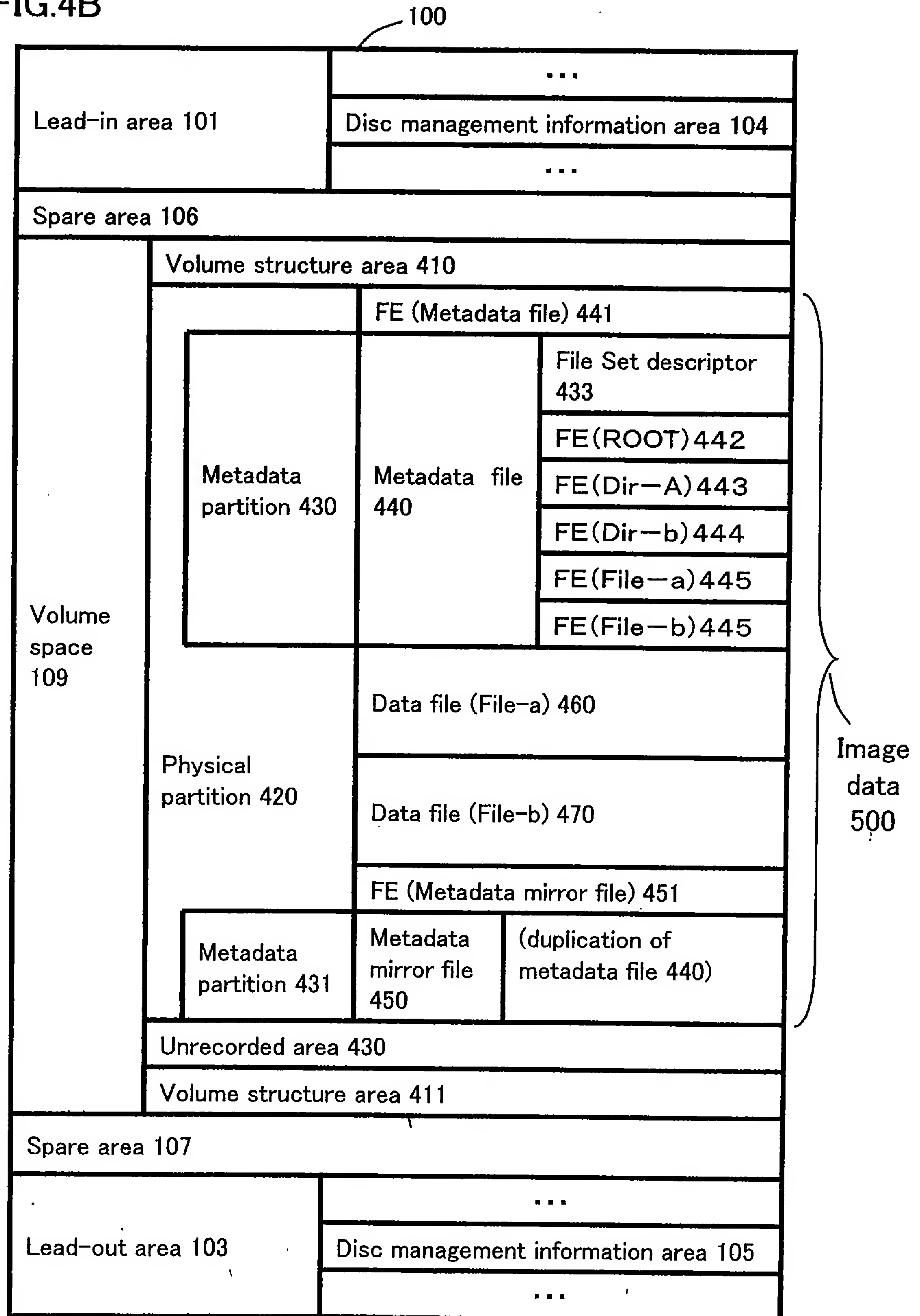


FIG.5

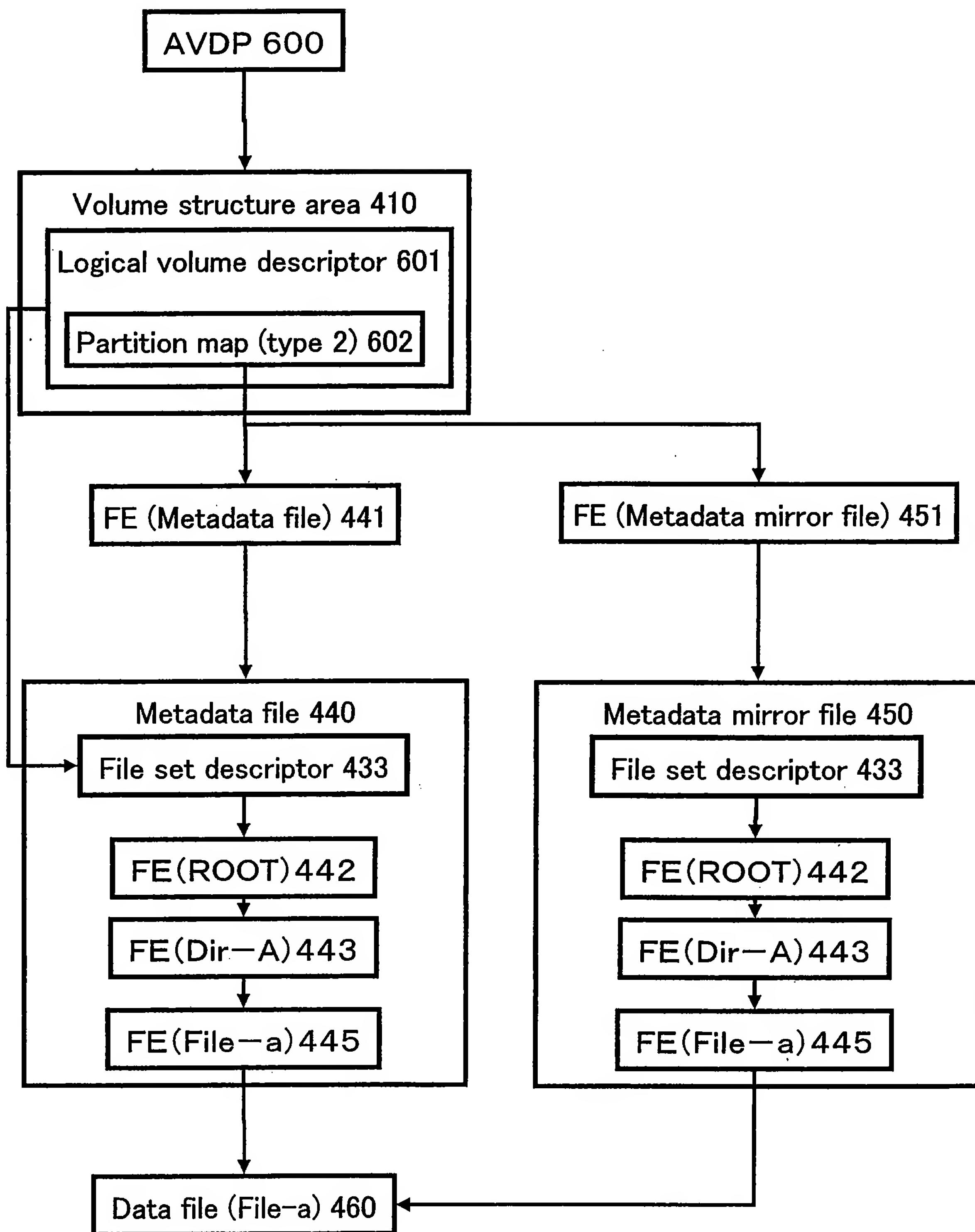


FIG.6A

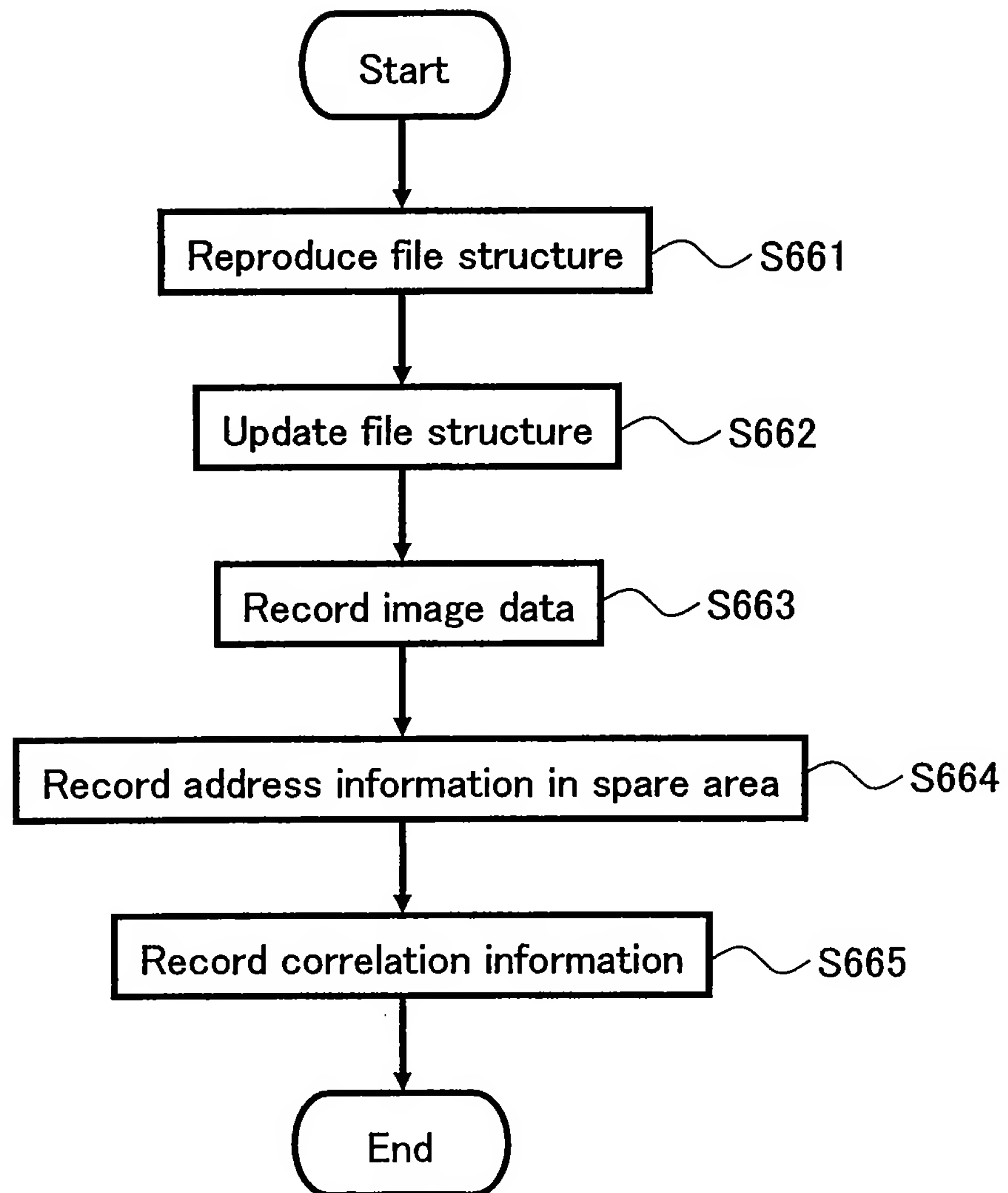


FIG.6B

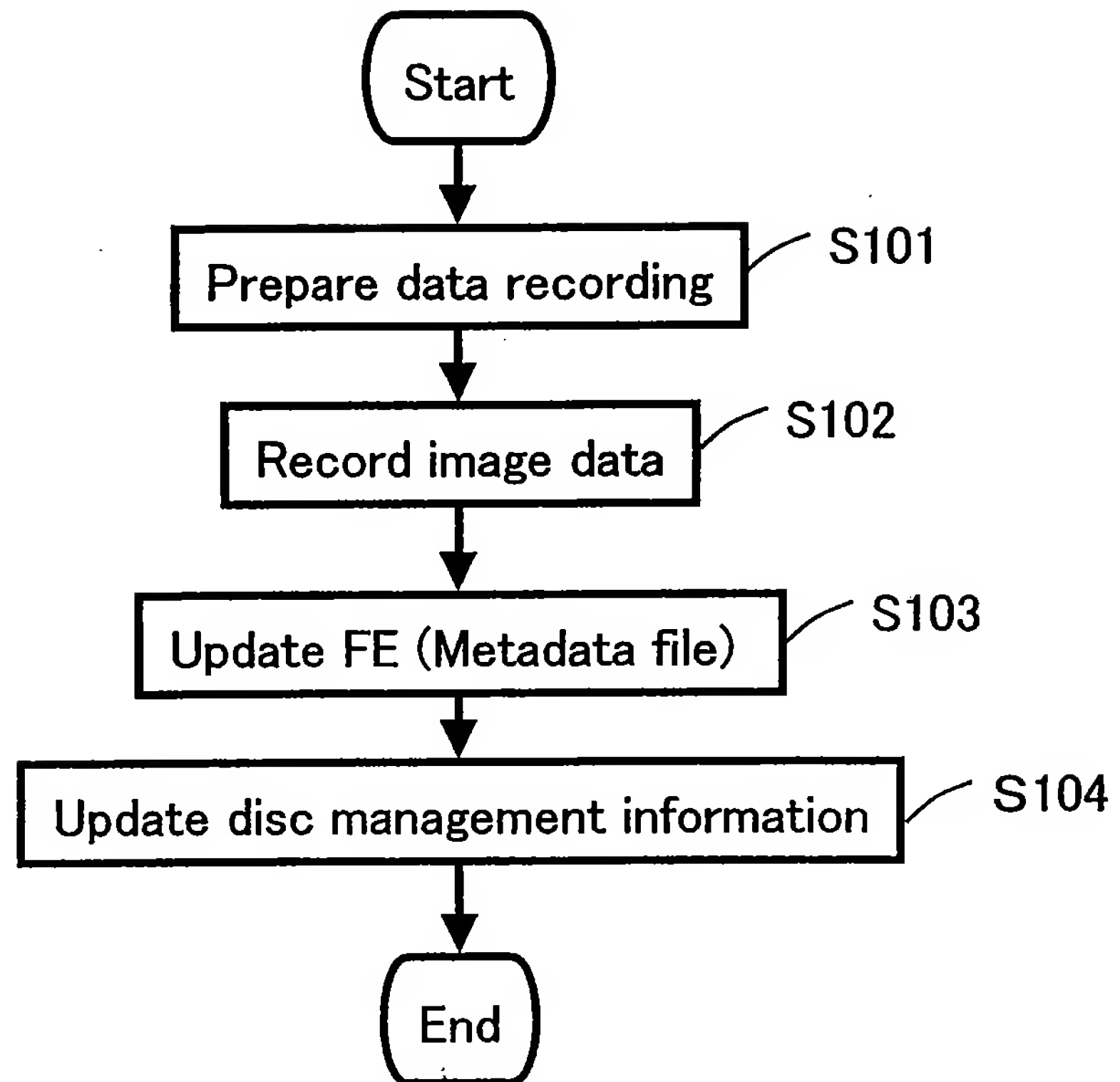


FIG.7A

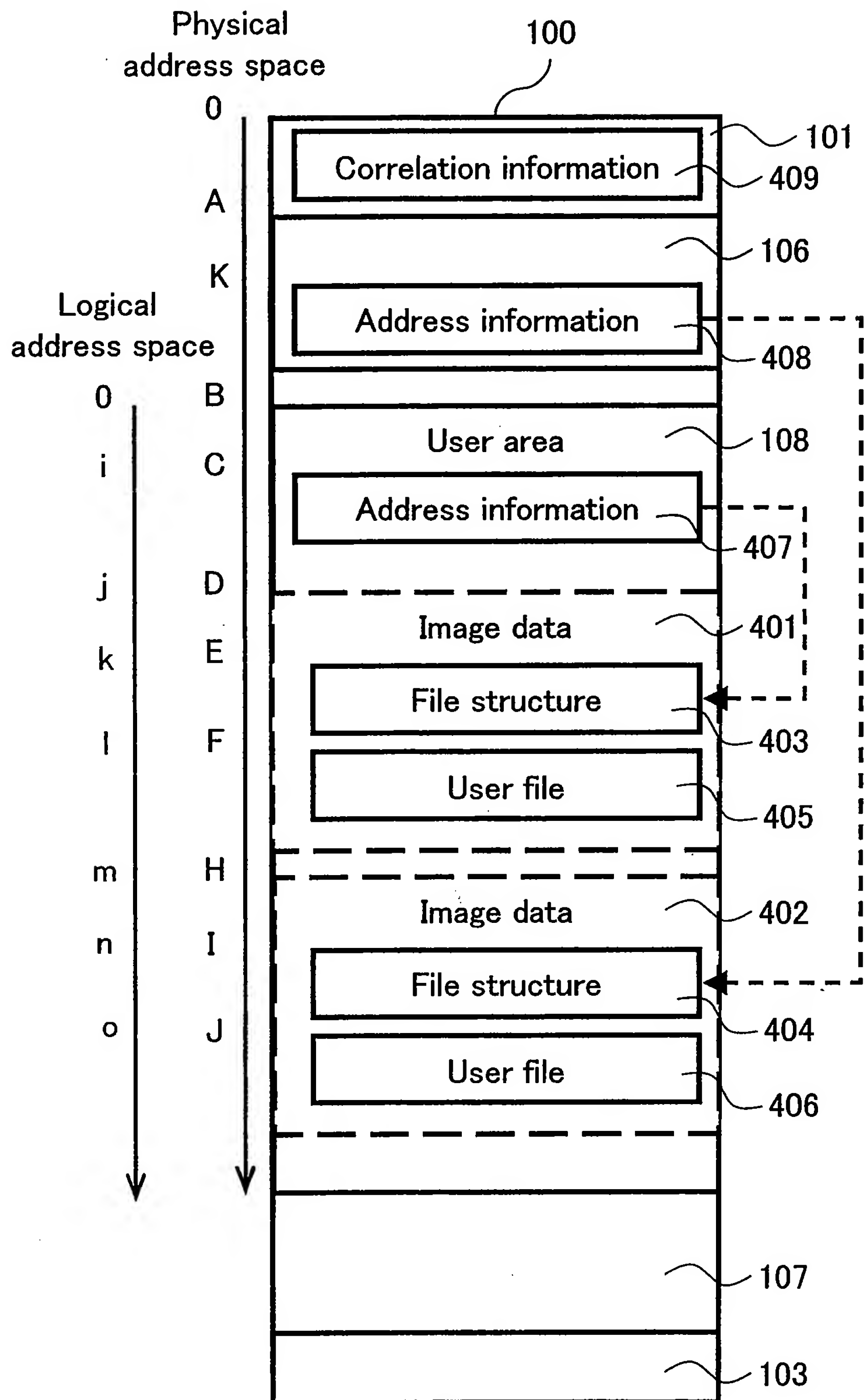


FIG.7B

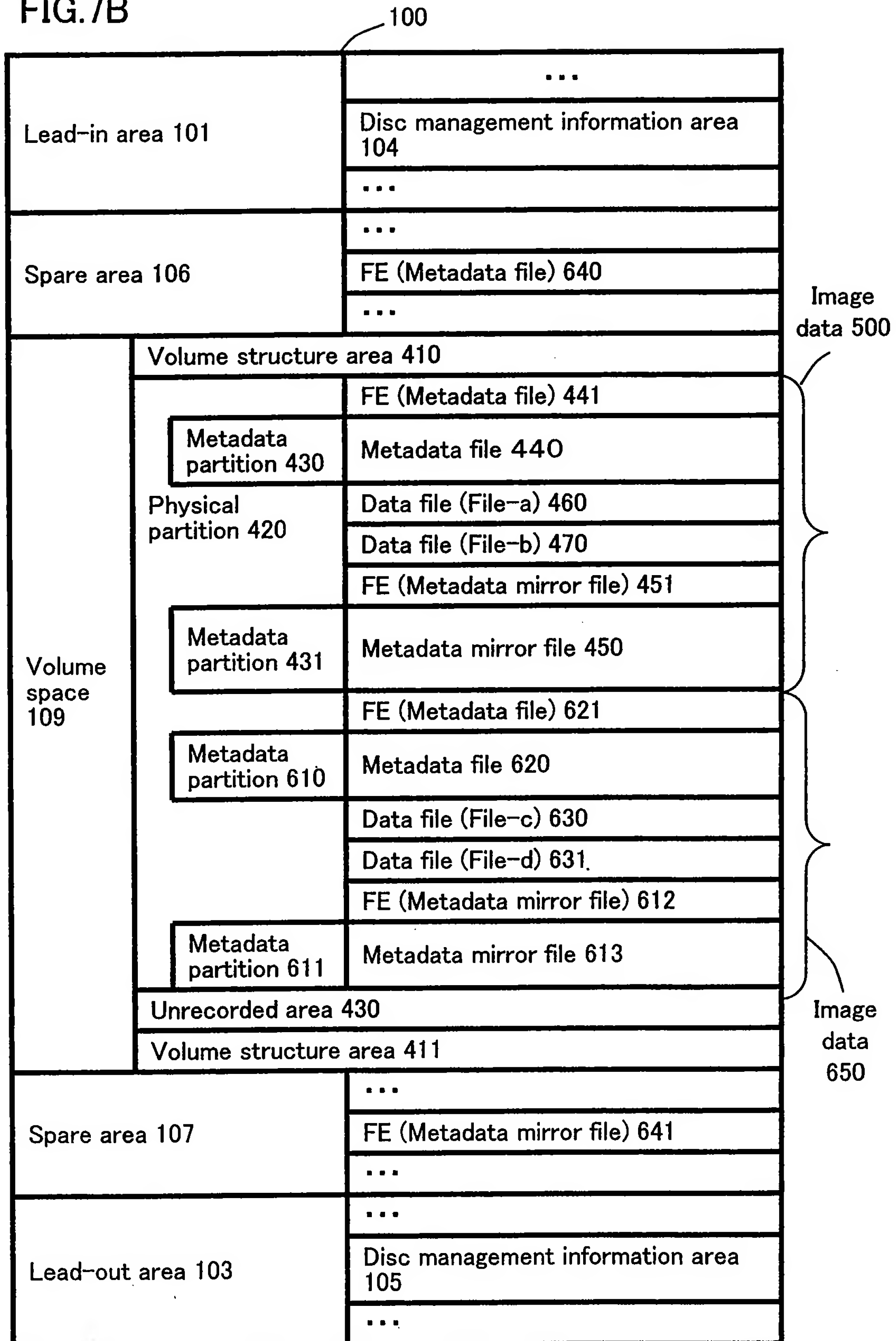


FIG.8A

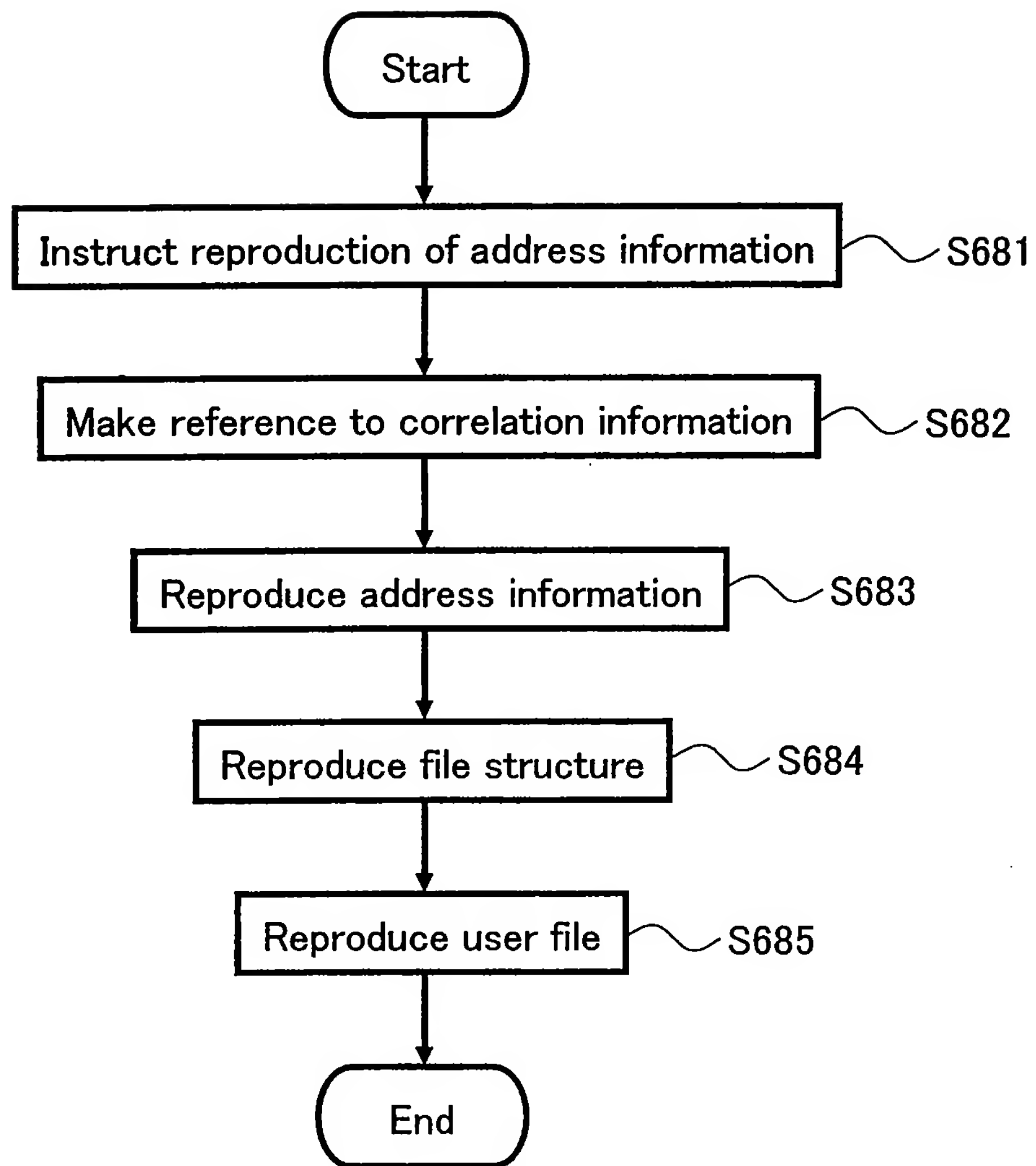


FIG.8B

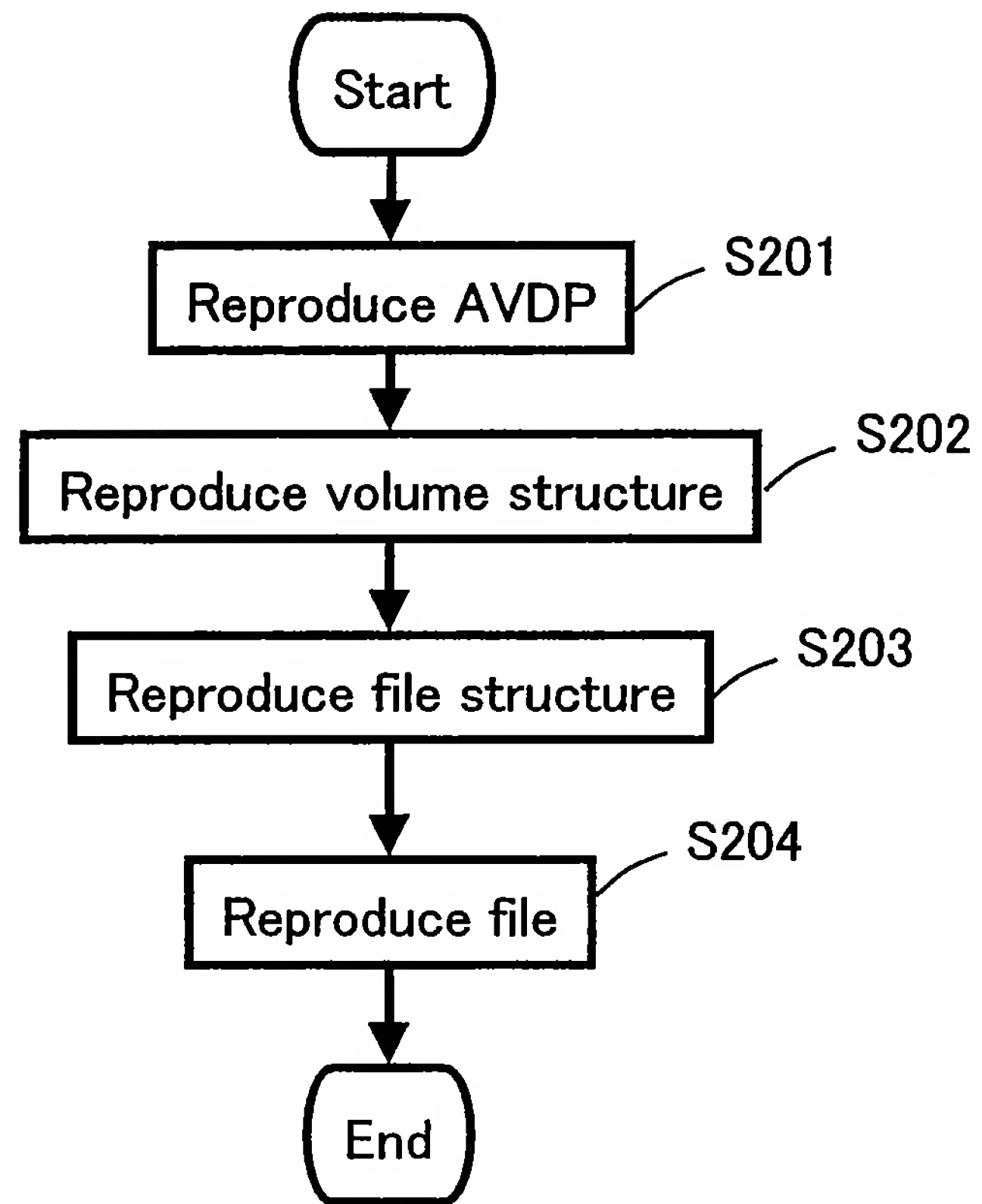


FIG.9

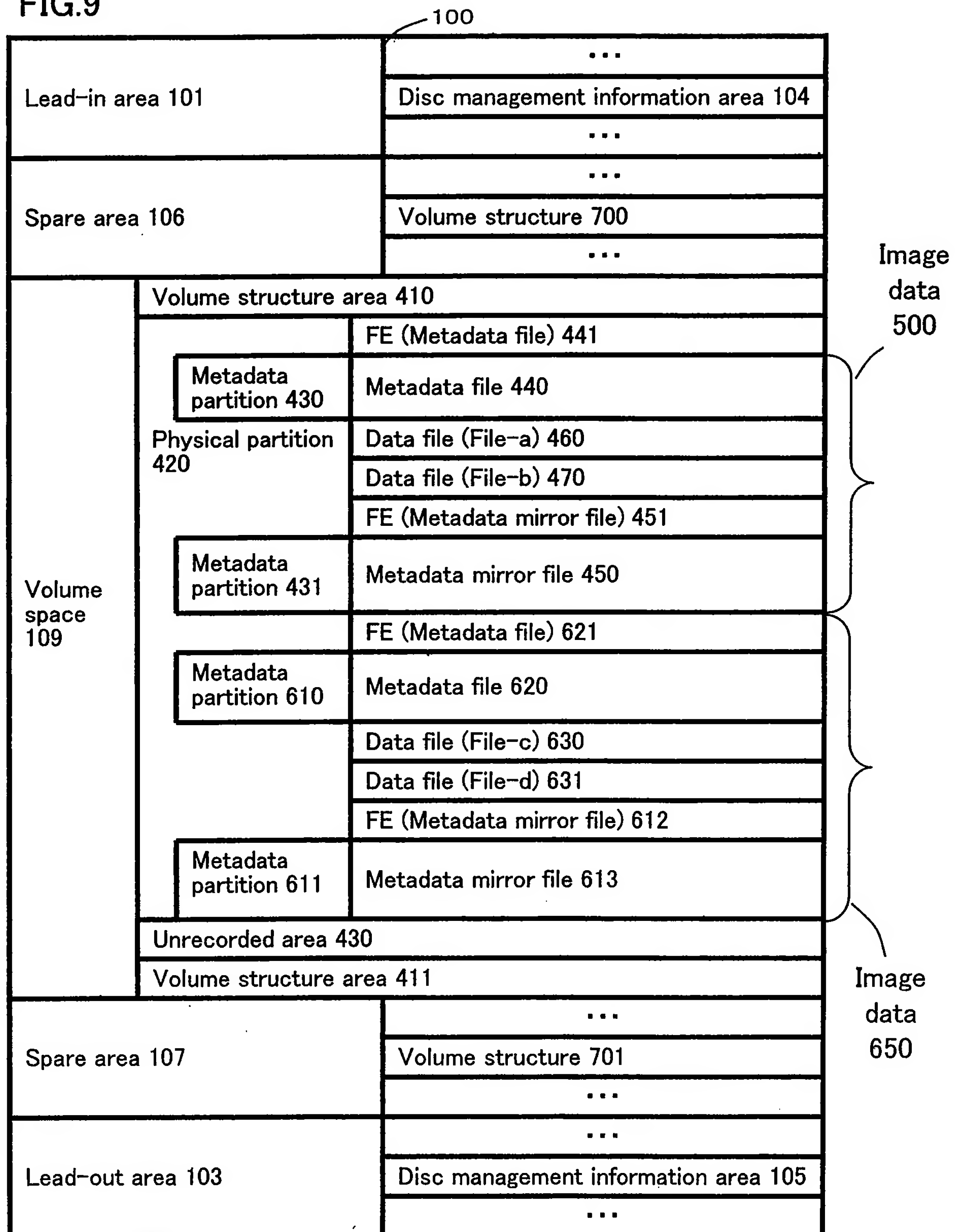


FIG.10

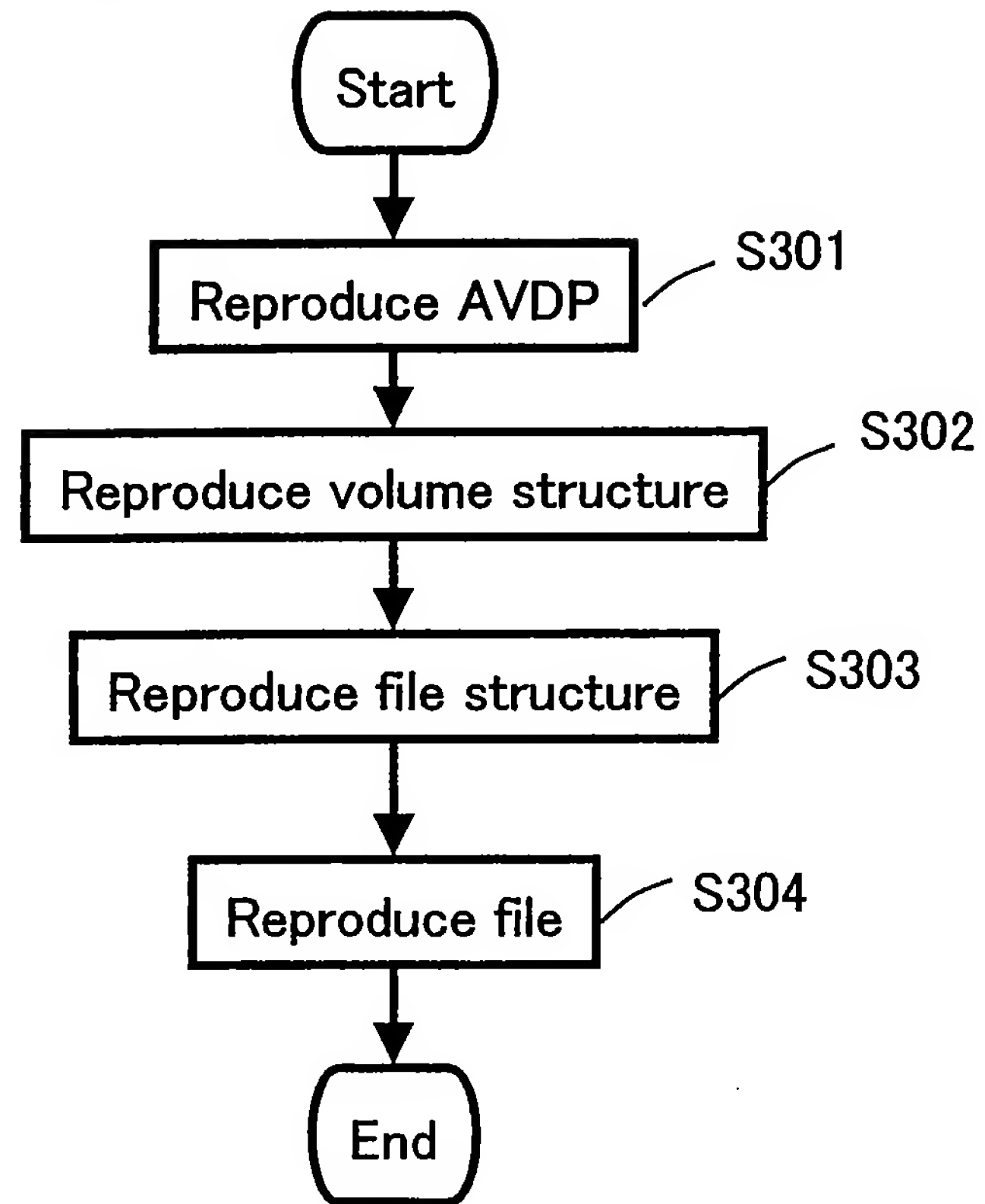


FIG.11

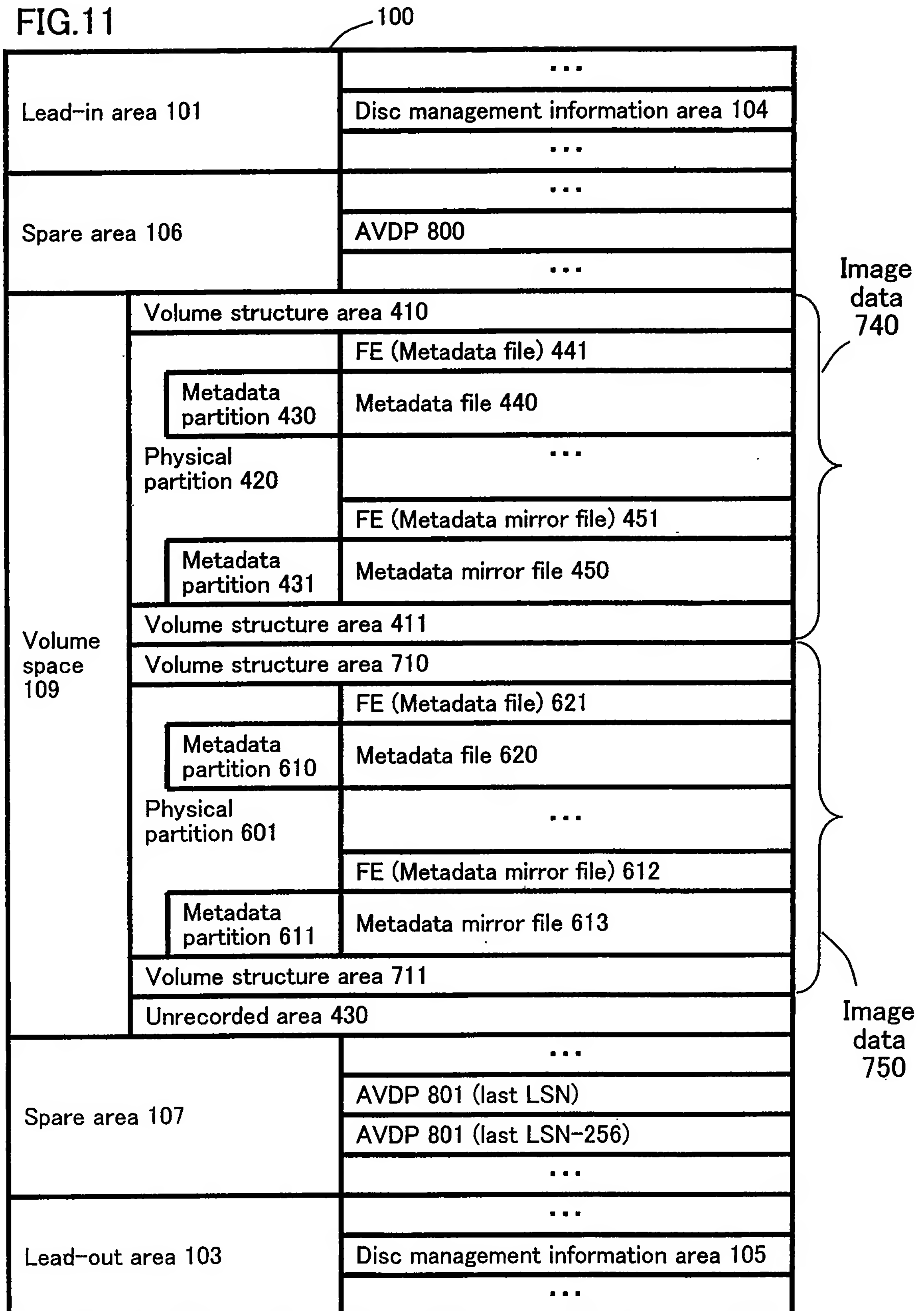


FIG.12

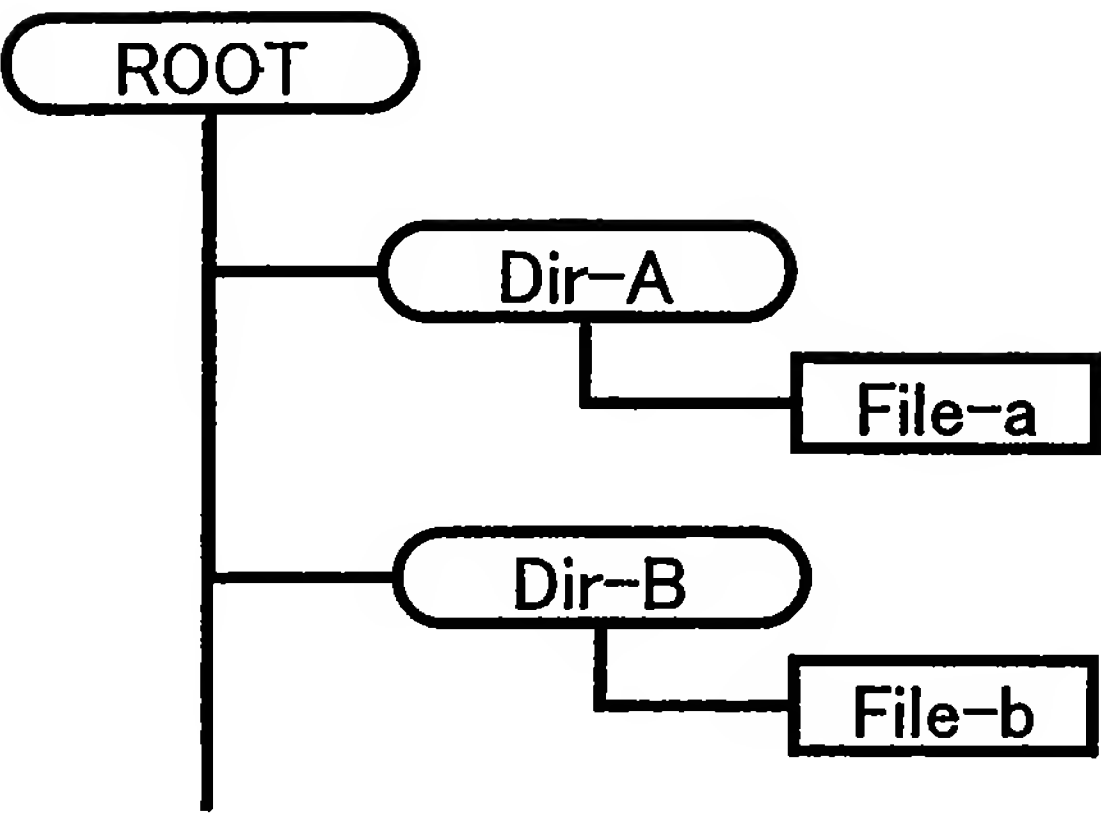


FIG.13

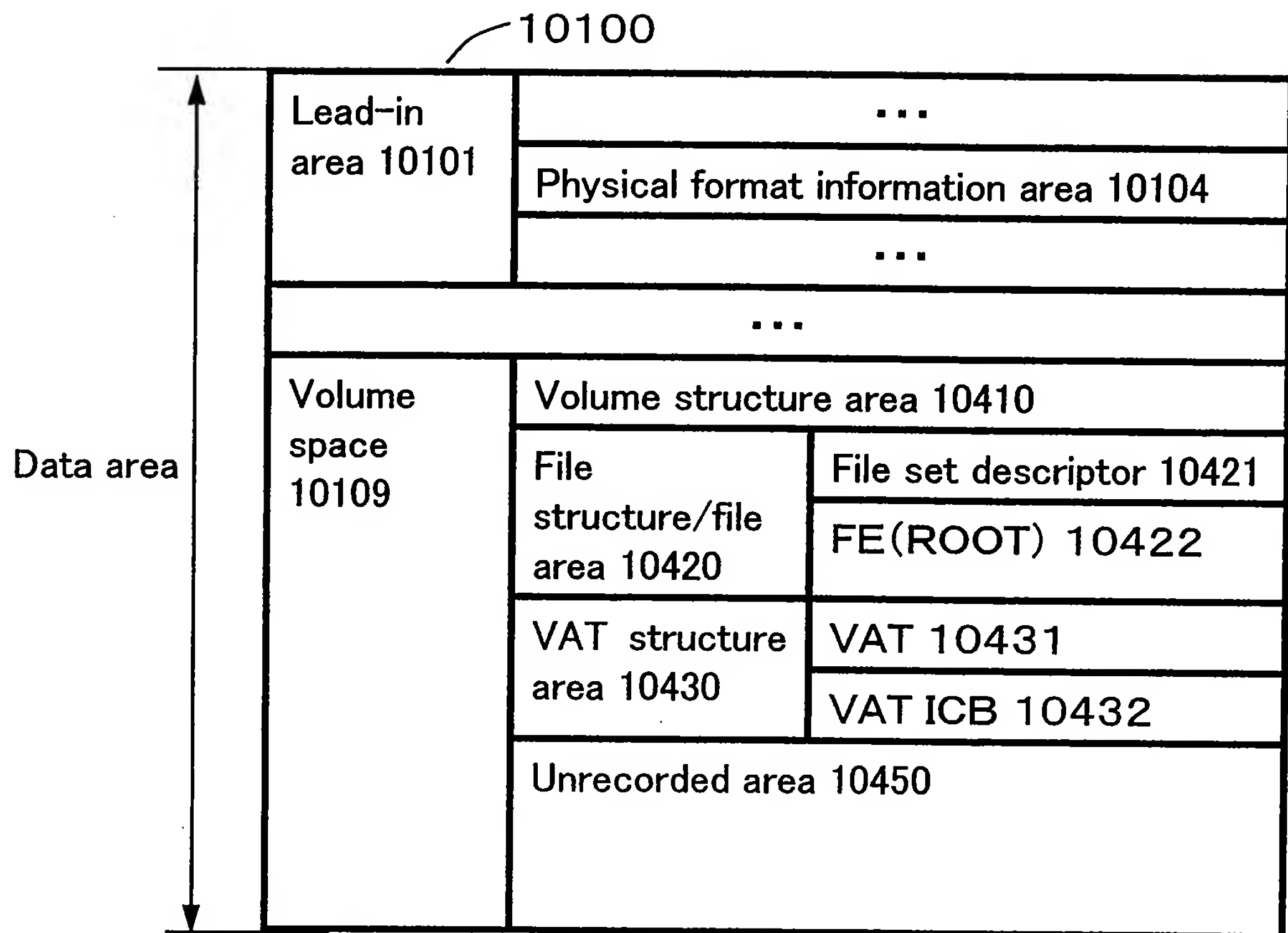


FIG.14

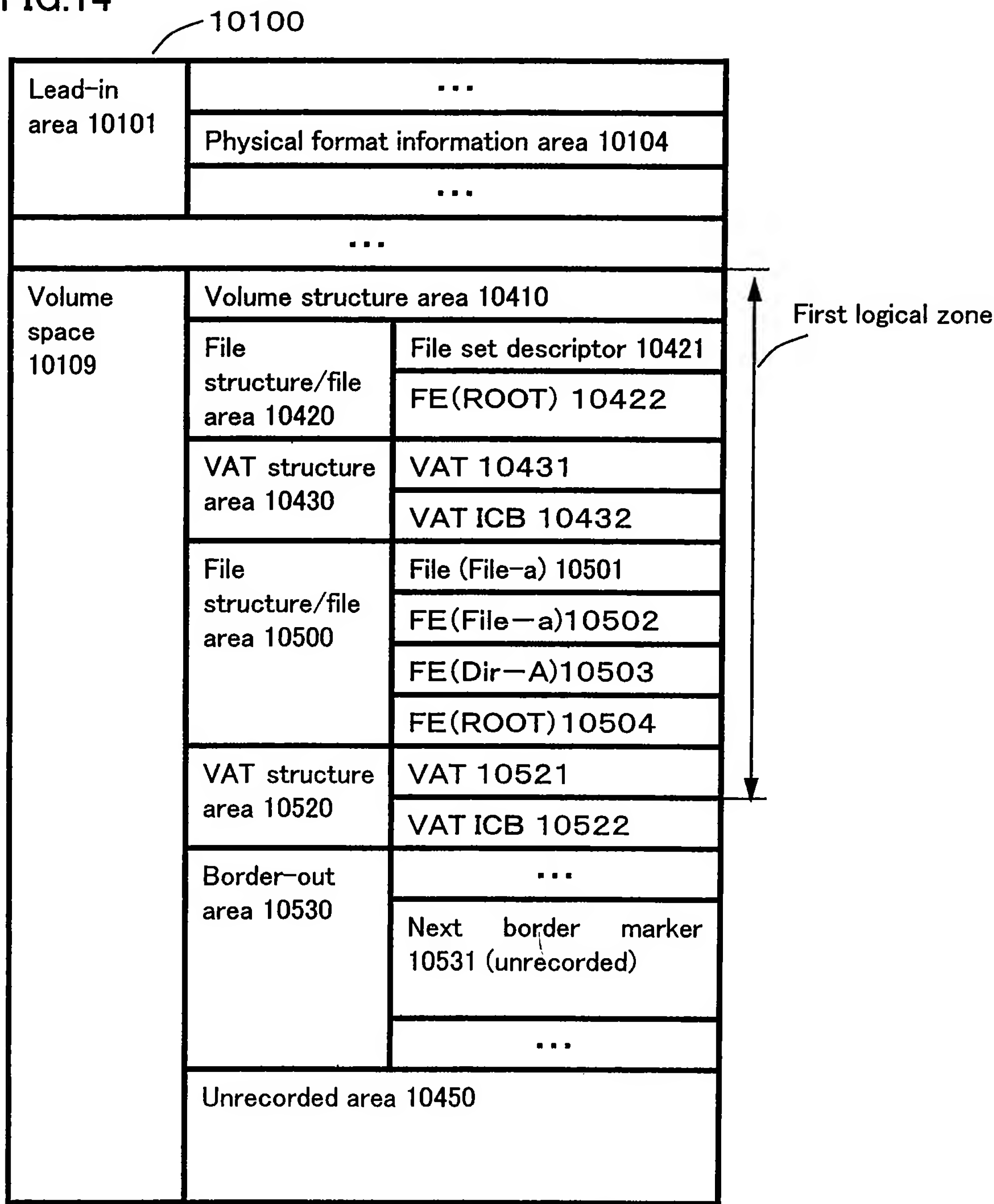


FIG. 15

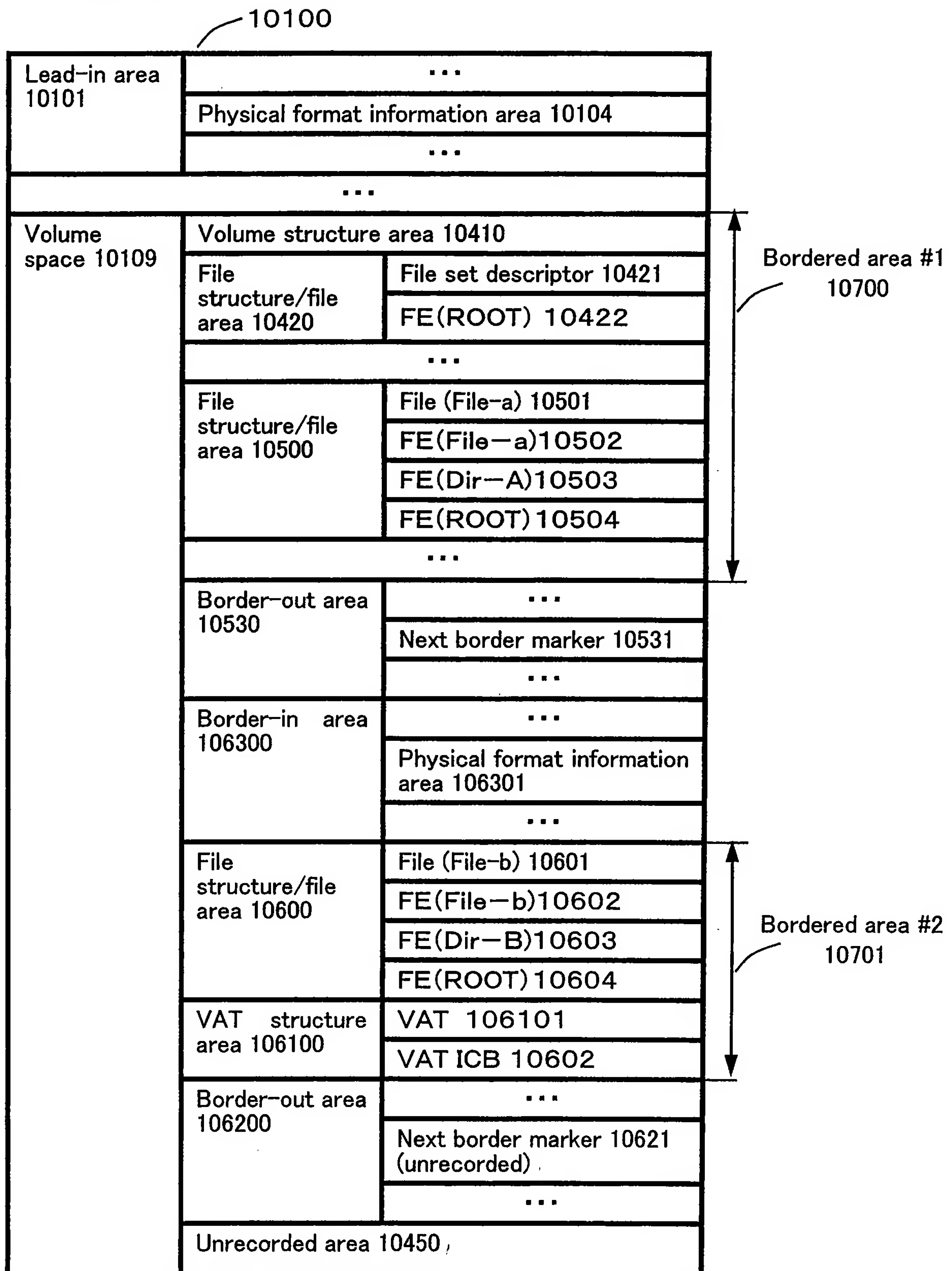


FIG.16

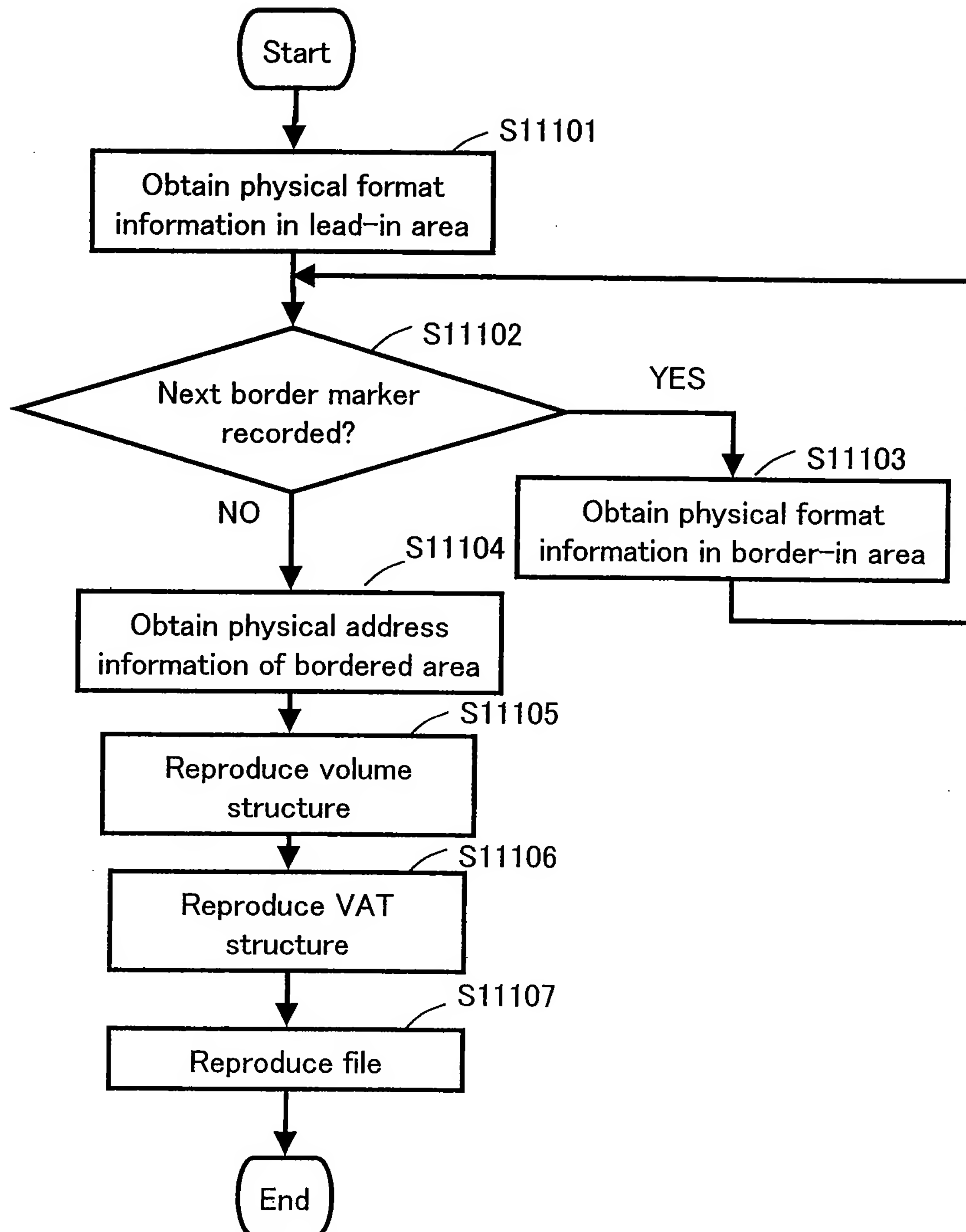


FIG.17

(a) Replacement management information list 1000

| |
|---------------------------------------|
| Header information 1001 |
| Replacement management information #1 |
| Replacement management information #2 |
| Replacement management information #3 |
| ... |
| Terminator information |
| 00h |

(b) Replacement management information 1010

| |
|---------------------------------------|
| Status information 1011 |
| Original location information 1012 |
| Replacement location information 1013 |

FIG.18

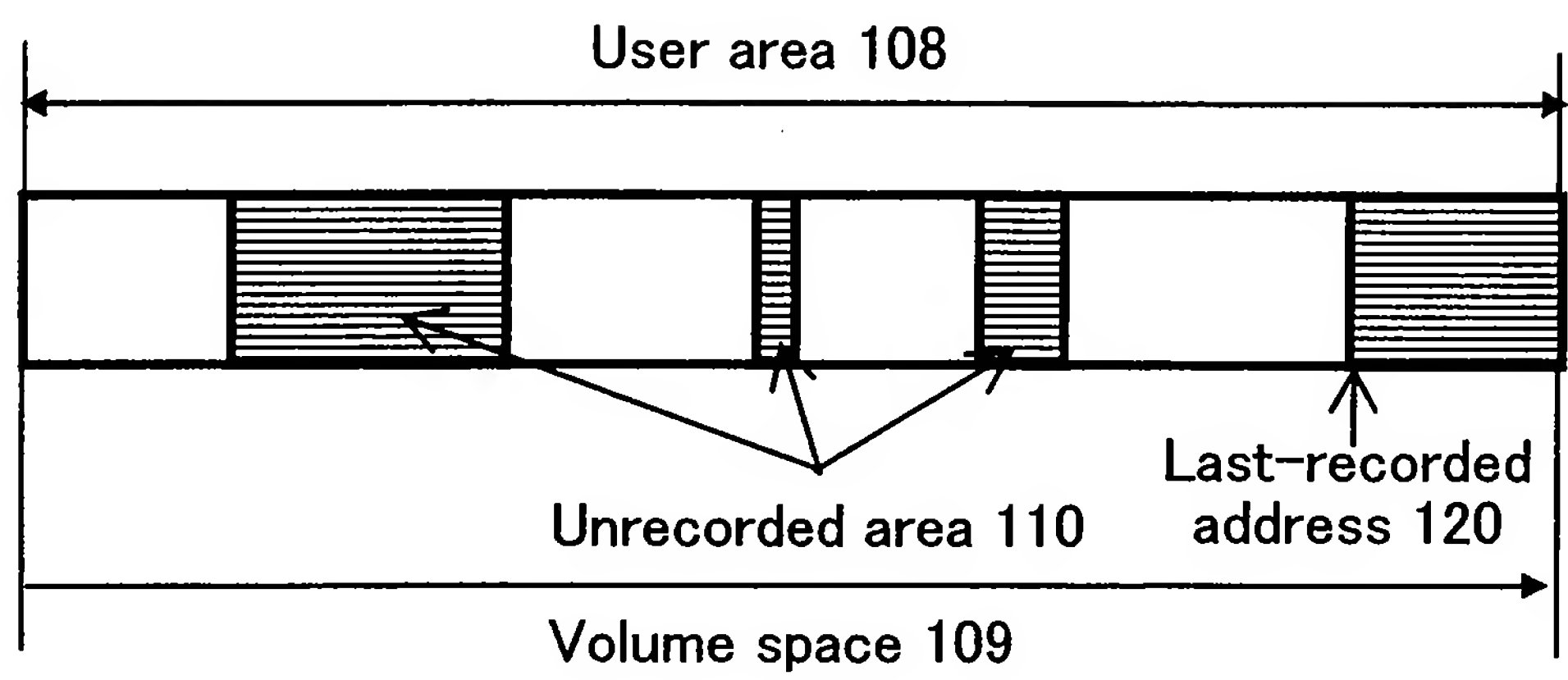


FIG.19

Disc structure information 1100

| |
|--|
| General information 1101 |
| Replacement management information list location information 1102 |
| User area start location information 1103 |
| User area end location information 1104 |
| Spare area information 1105 |
| Recording mode information 1106 |
| Last recorded address information 1107 |
| Spare area management information 1108 |
| Session management information location information 1109 |
| Space bitmap management information location information 1110 |

FIG.20

100b

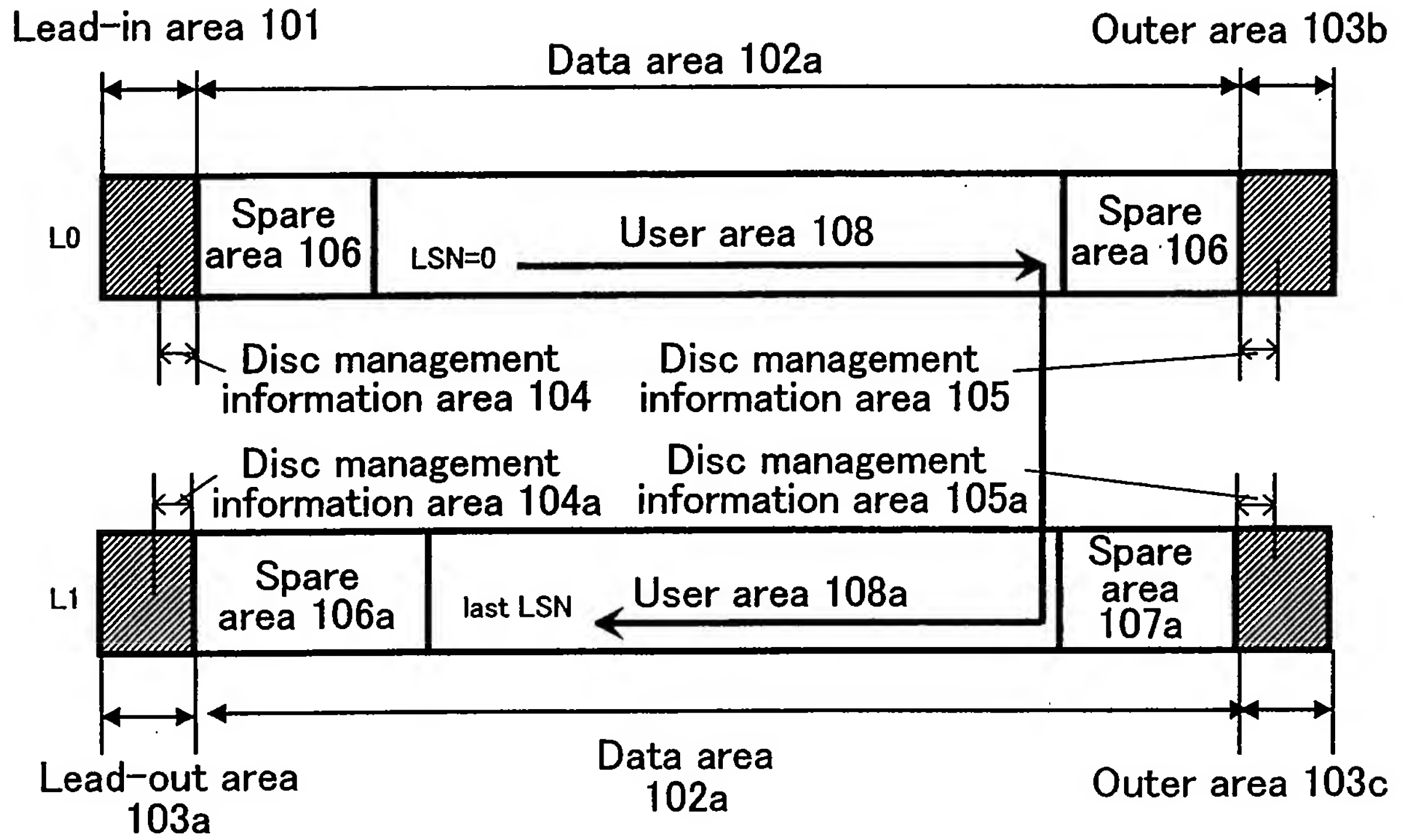
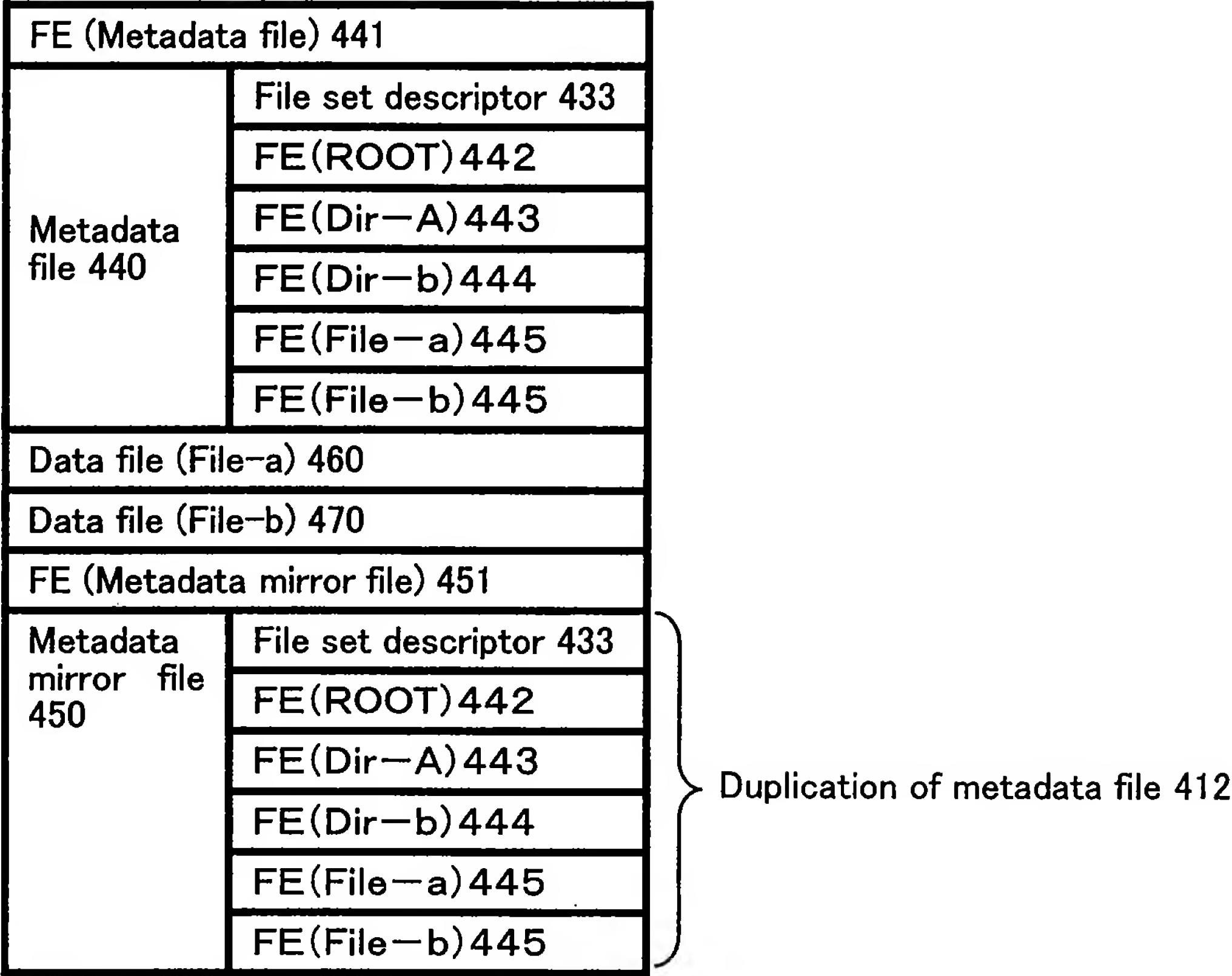


FIG.21

(a) The structure of image data 500



(b) An example of different data arrangement in metadata file 440

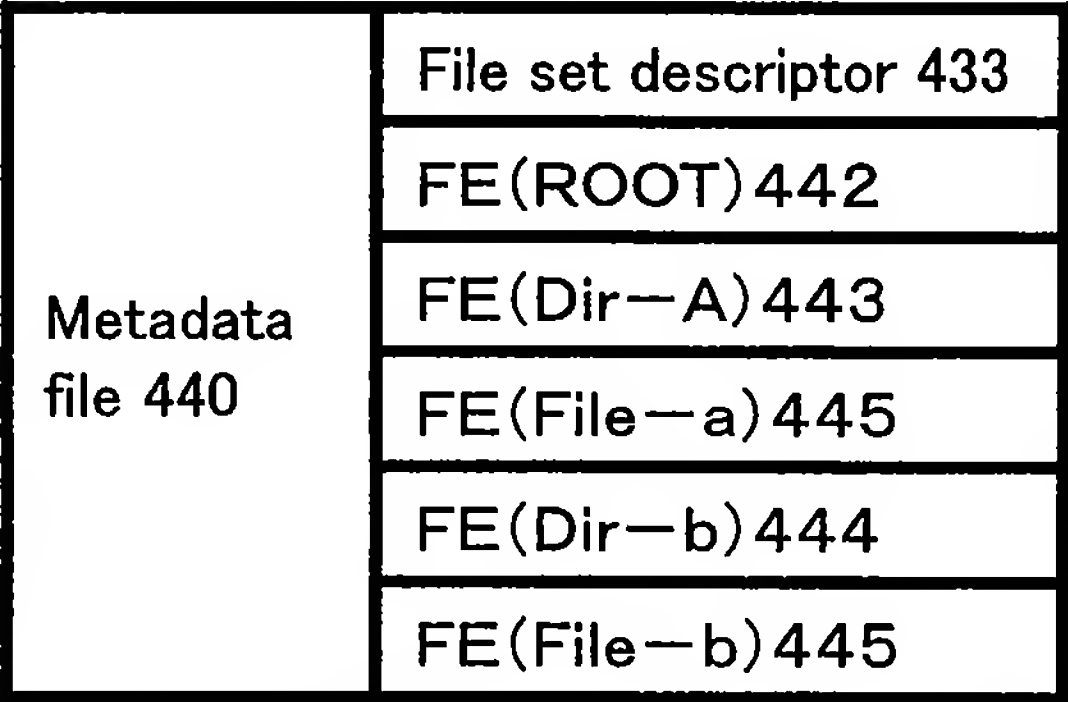


FIG.22

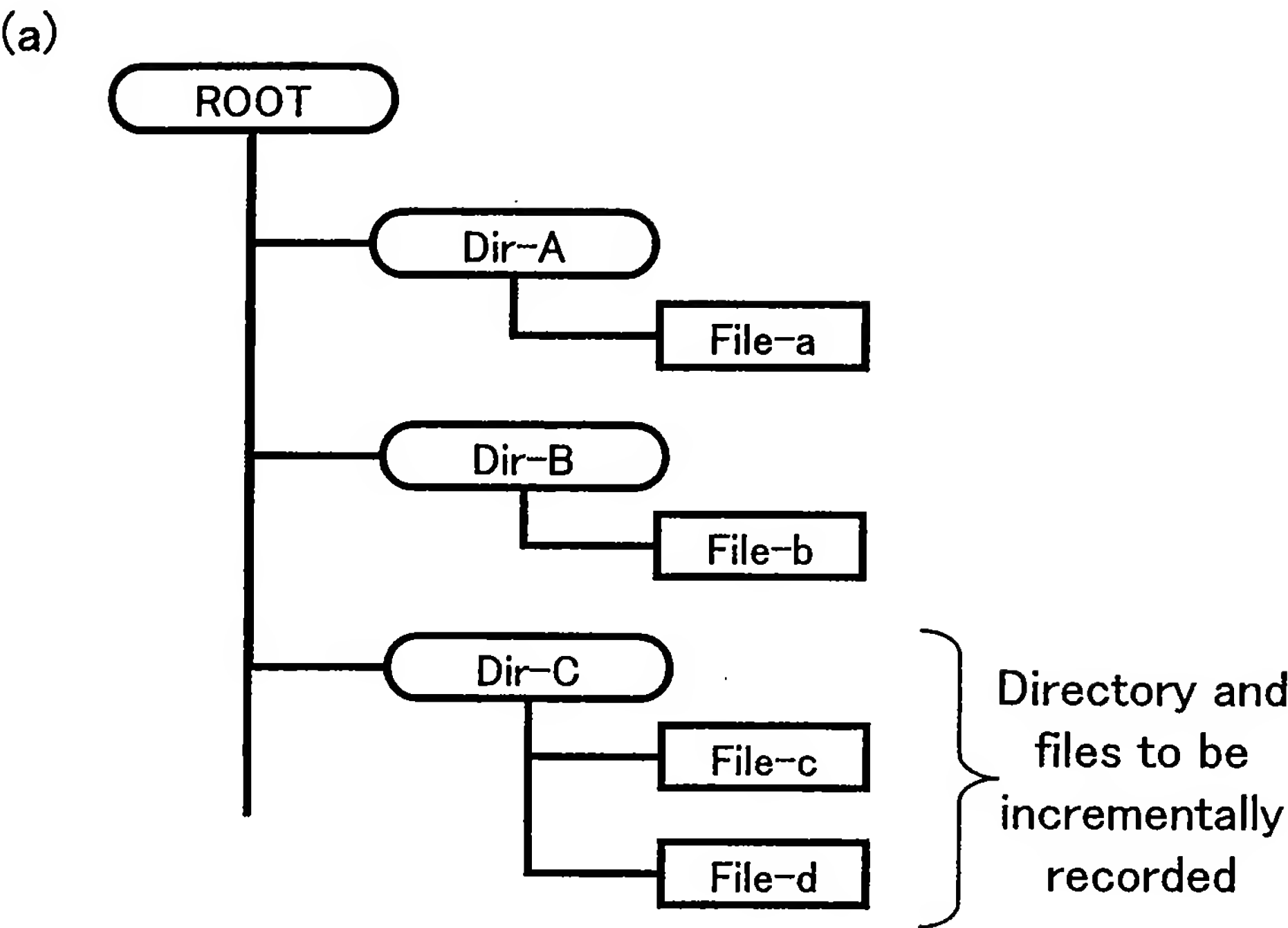
(a)

| | | | |
|--|--------------------------------------|-----------------------------|------------------------------------|
| Volume structure area 410 | NSR area | | |
| | ... | | |
| | Primary volume descriptor | | |
| | Implementation use volume descriptor | | |
| | Partition descriptor | ... | |
| | | Partition start location | |
| | | ... | |
| | Logical volume descriptor 601 | ... | |
| | | Partition map (type 1) 1200 | |
| | | Partition map (type 2) 602 | ... |
| | | | Metadata file location 1201 |
| | | | Metadata mirror file location 1202 |
| | | | ... |
| | | | Flag 1203 |
| | | | ... |
| | | ... | |
| | ... | | |
| Logical volume integrity descriptor | | | |
| ... | | | |
| First anchor volume descriptor pointer 600 | | | |

(b)

| | | | |
|---------------------------|---|--|--|
| Volume structure area 411 | Third anchor volume descriptor pointer | | |
| | ... | | |
| | Primary volume descriptor | | |
| | Implementation use volume descriptor | | |
| | Partition descriptor | | |
| | Logical volume descriptor 601 | | |
| | ... | | |
| | Second anchor volume descriptor pointer | | |

FIG.23



(b)

650

| | |
|-------------------------------|------------------------------------|
| FE (Metadata file) 621 | |
| Metadata file 620 | File set descriptor 433 |
| | FE(ROOT) 442 |
| | FE(Dir-A) 443 |
| | FE(Dir-b) 444 |
| | FE(Dir-C) 622 |
| | FE(File-a) 445 |
| | FE(File-b) 445 |
| | FE(File-c) 623 |
| | FE(File-d) 624 |
| Data file (file-c) 630 | |
| Data file (file-d) 631 | |
| FE (Metadata mirror file) 612 | |
| Metadata mirror file 613 | (Duplication of Metadata file 620) |

FIG.24

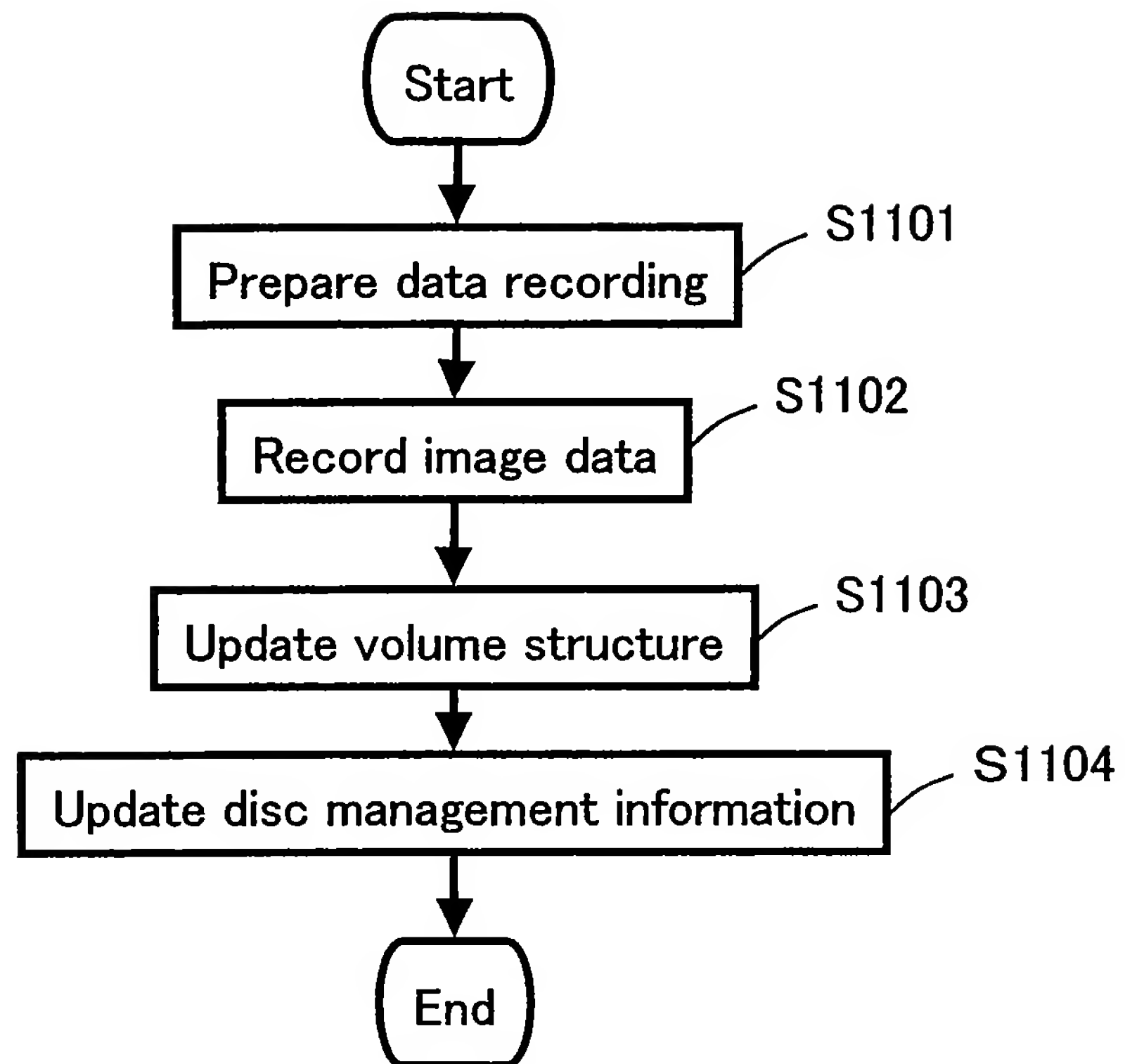


FIG.25

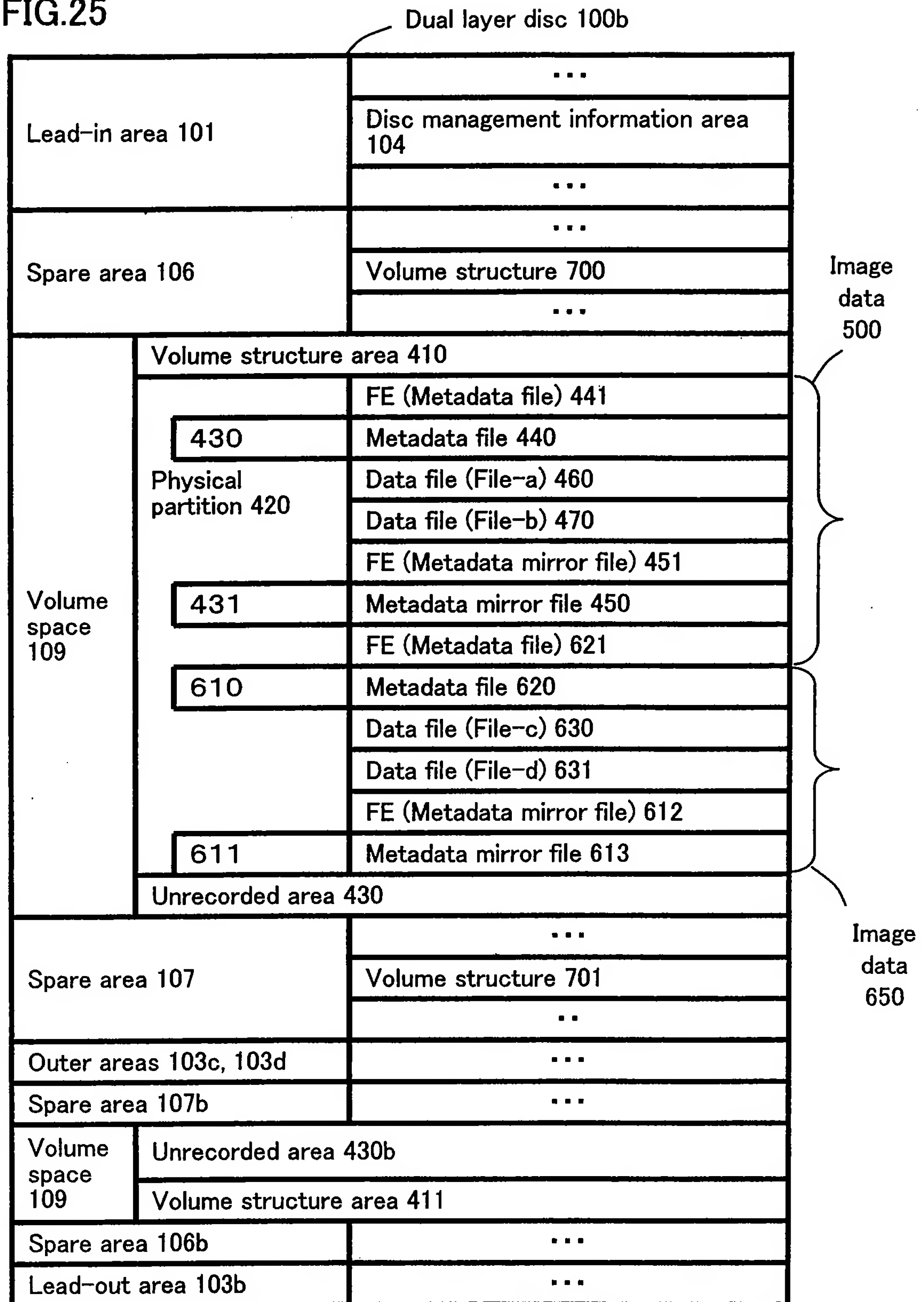


FIG.26

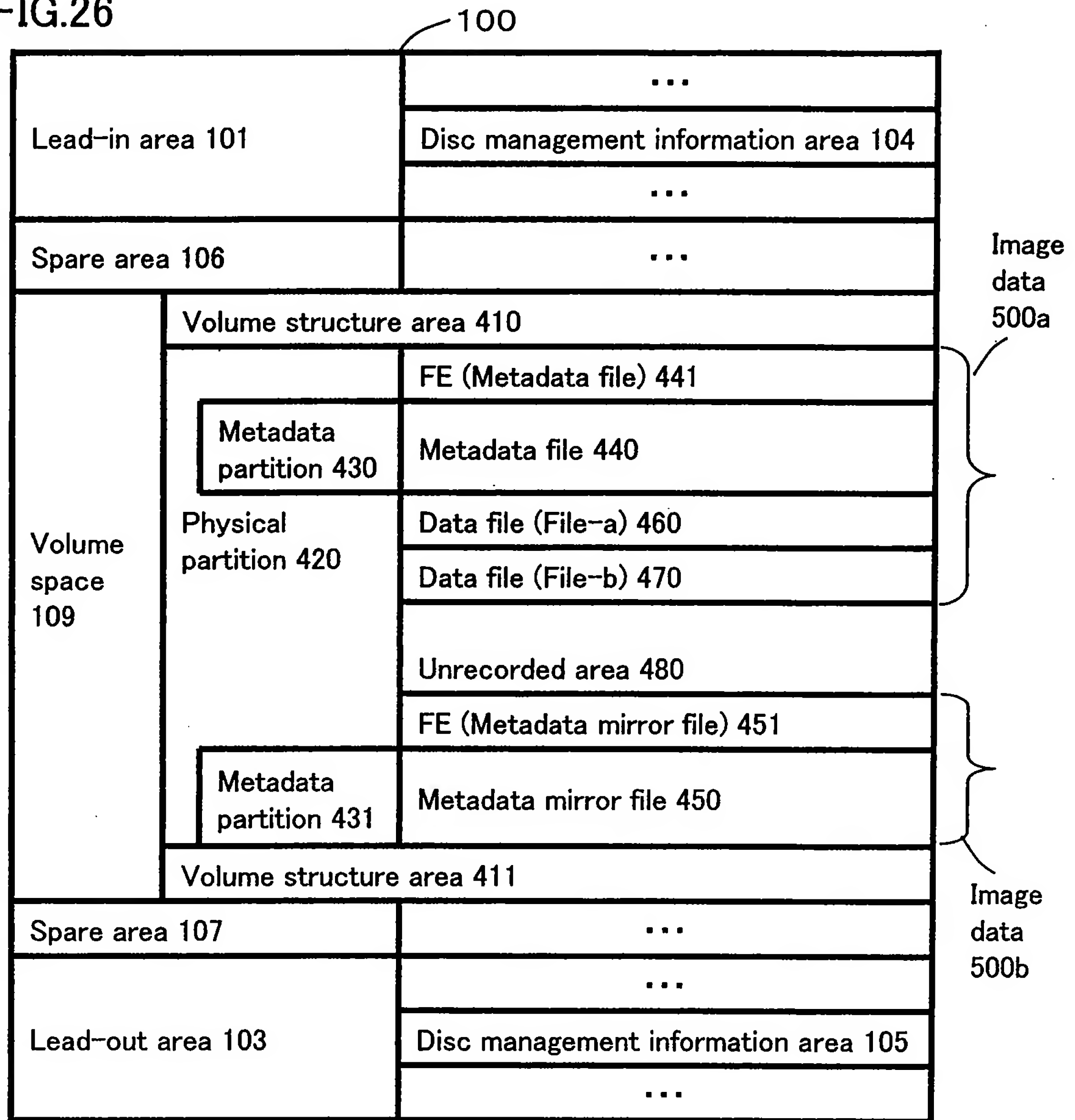


FIG.27

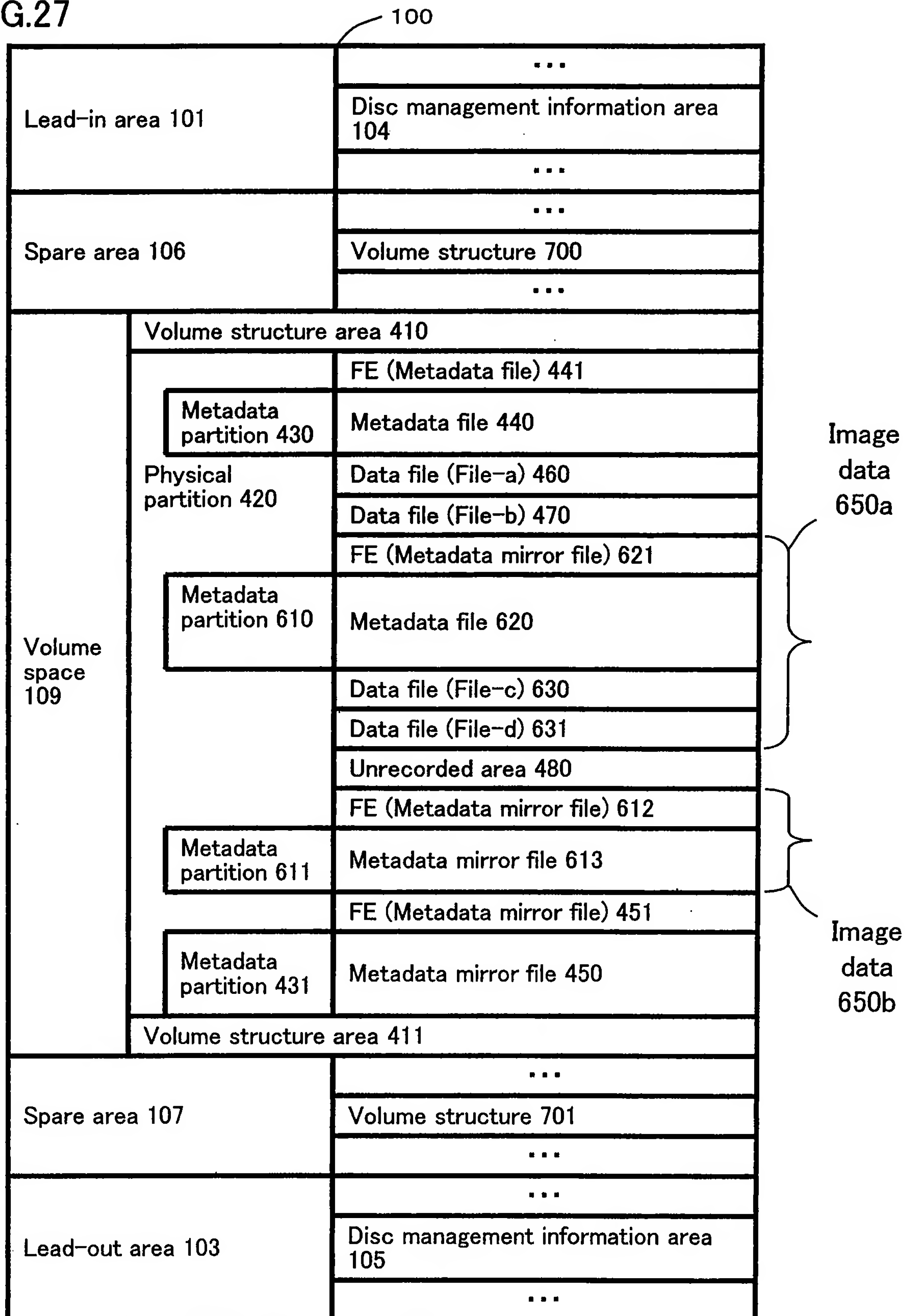


Fig. 28

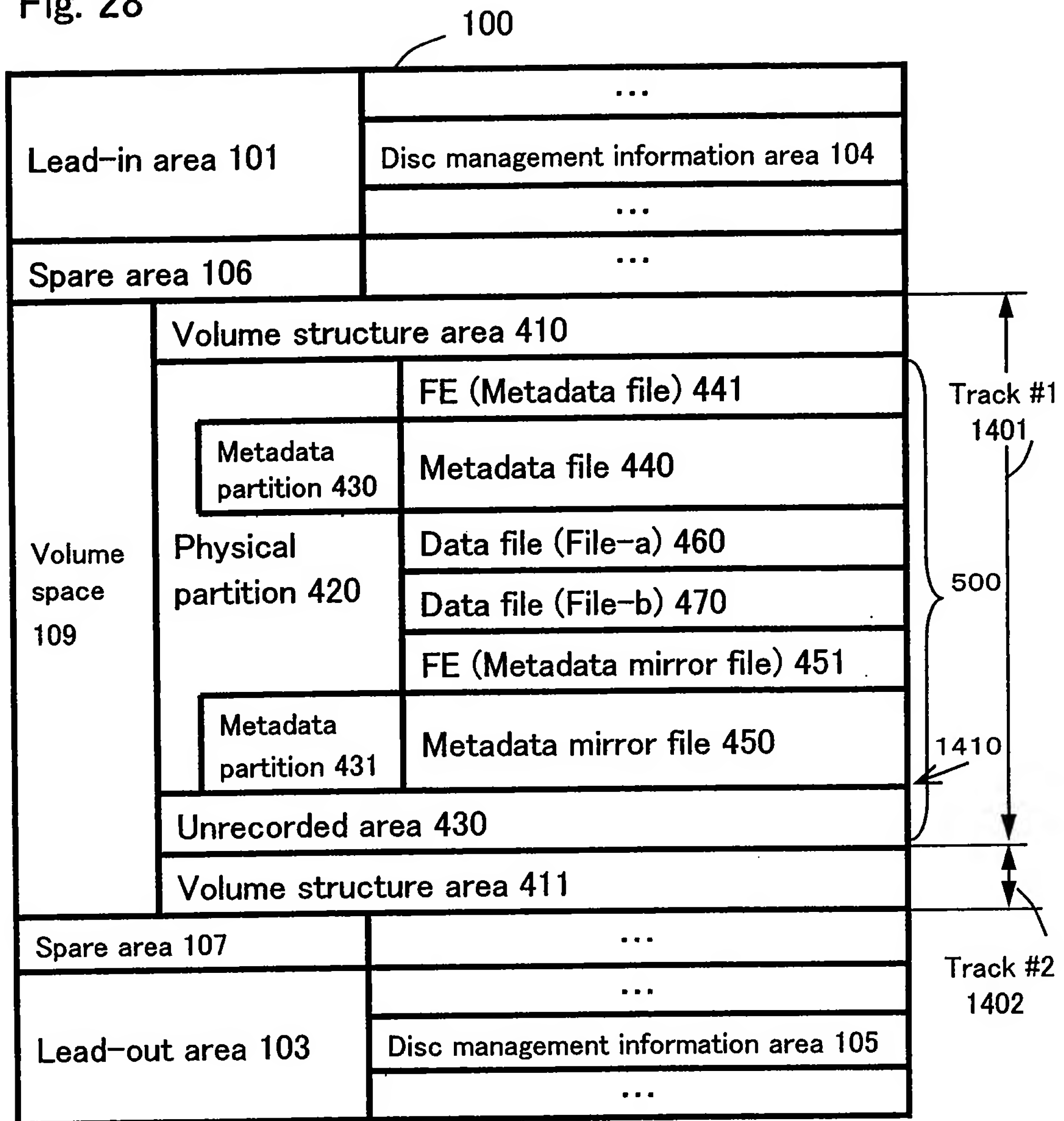


Fig. 29

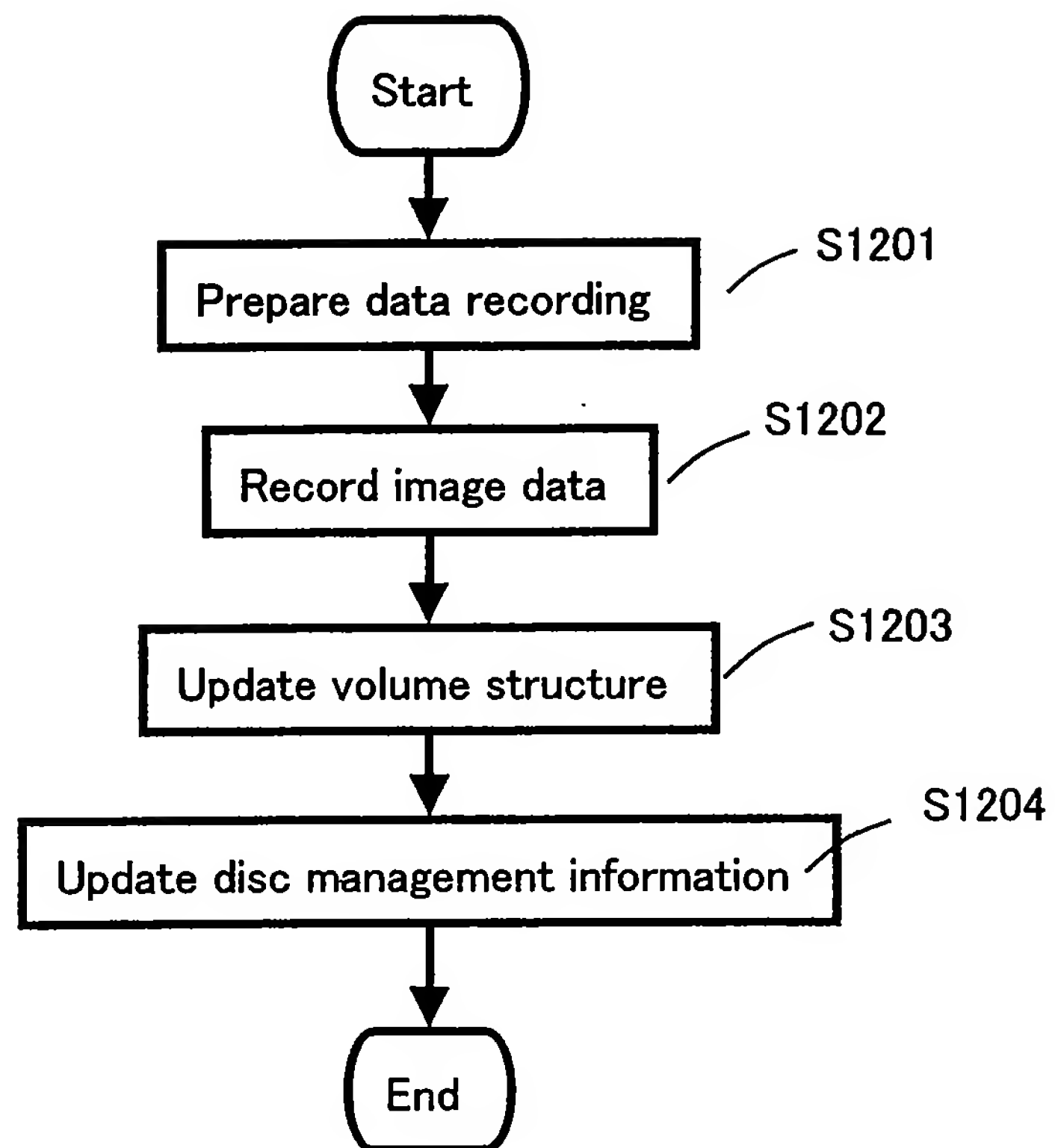


Fig. 30

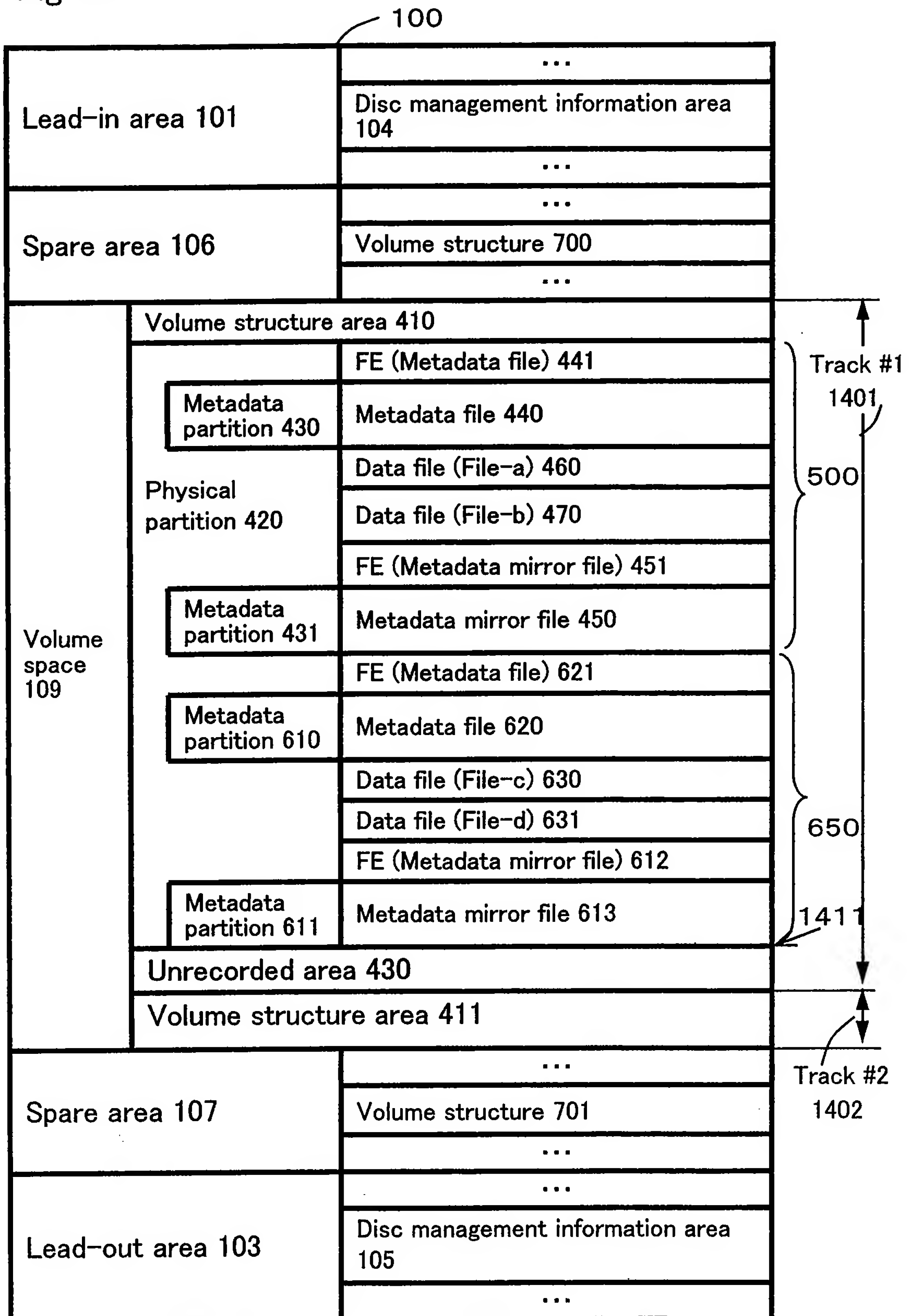


Fig. 31

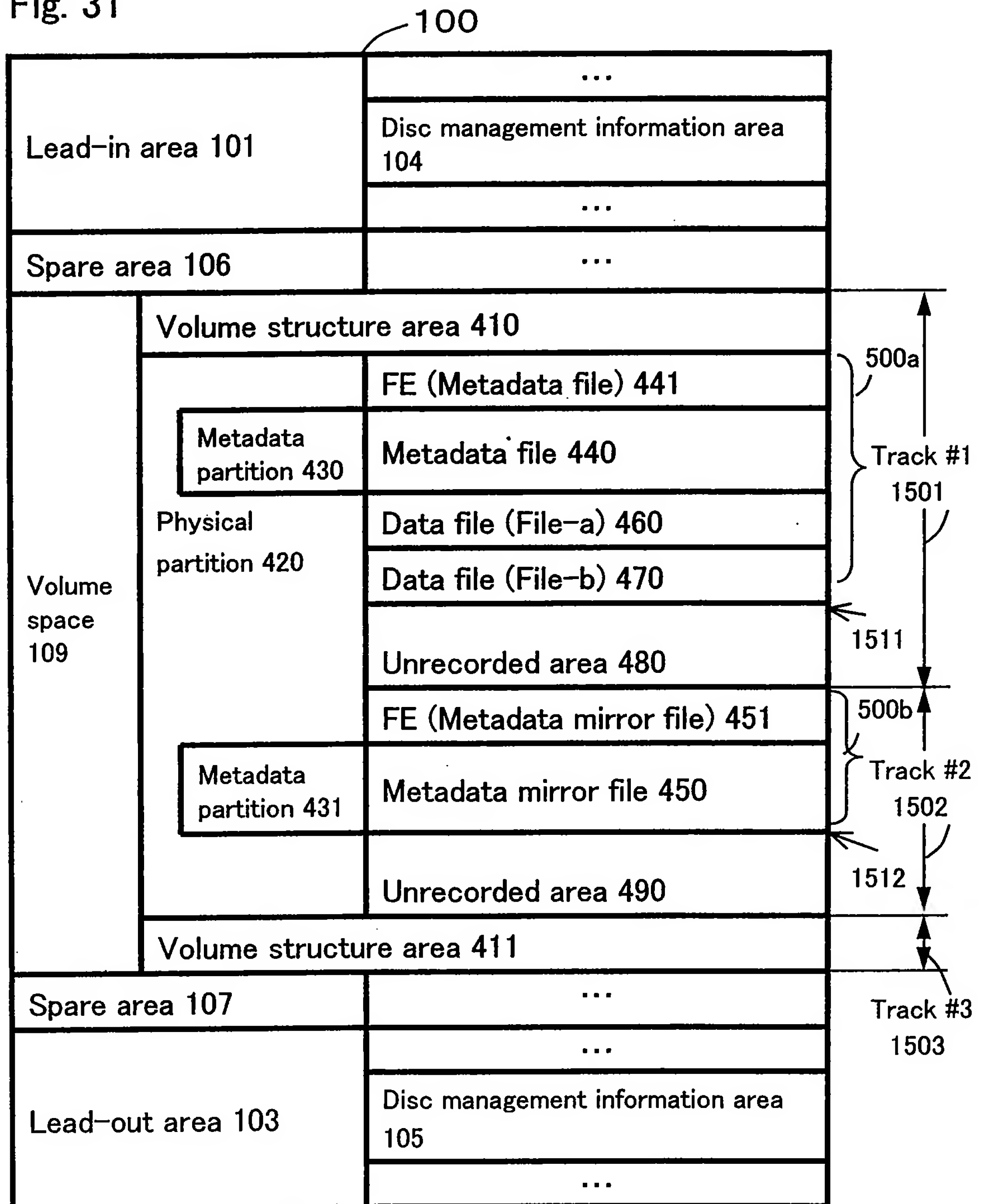


Fig. 32

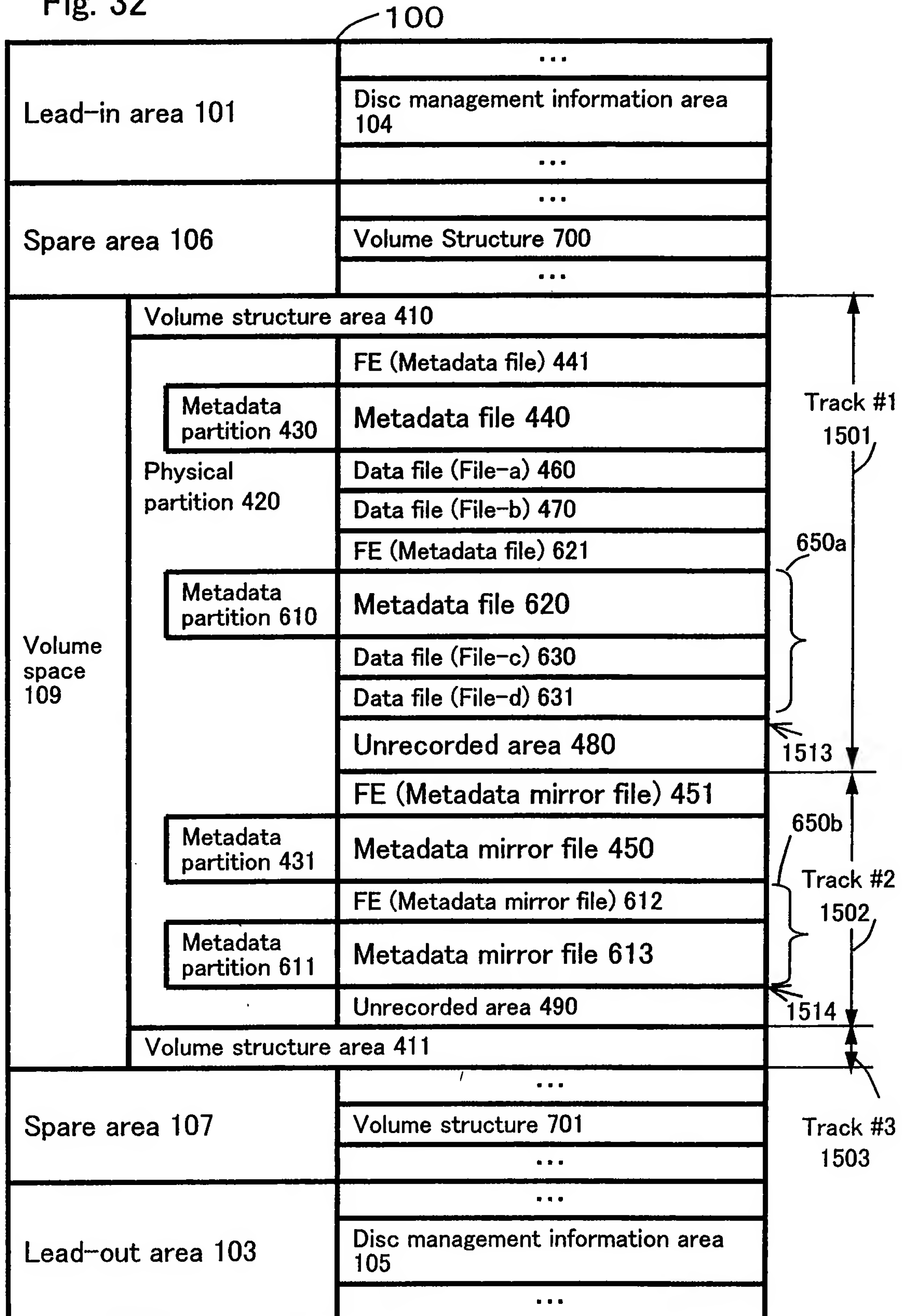


Fig. 33

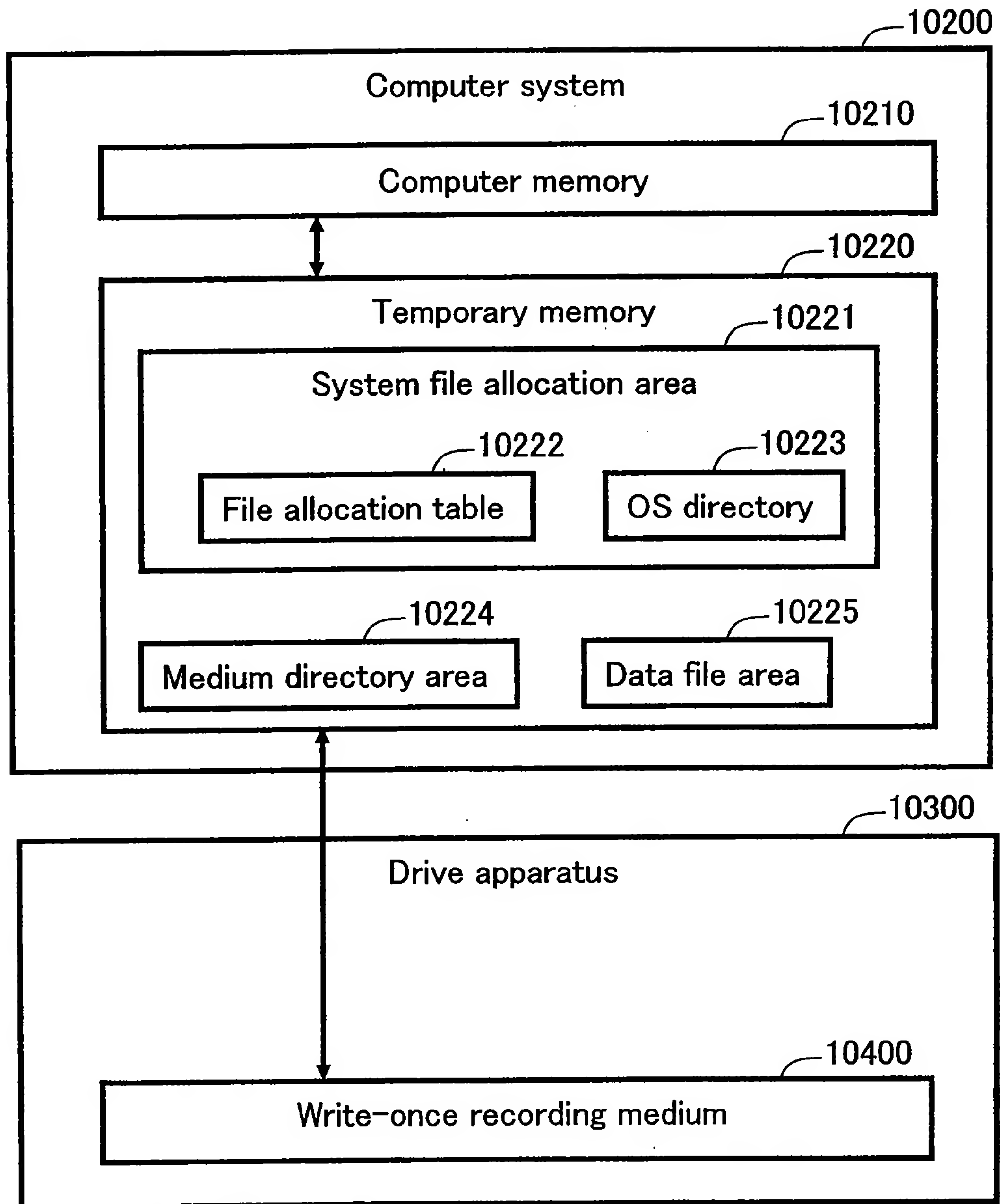


Fig. 34

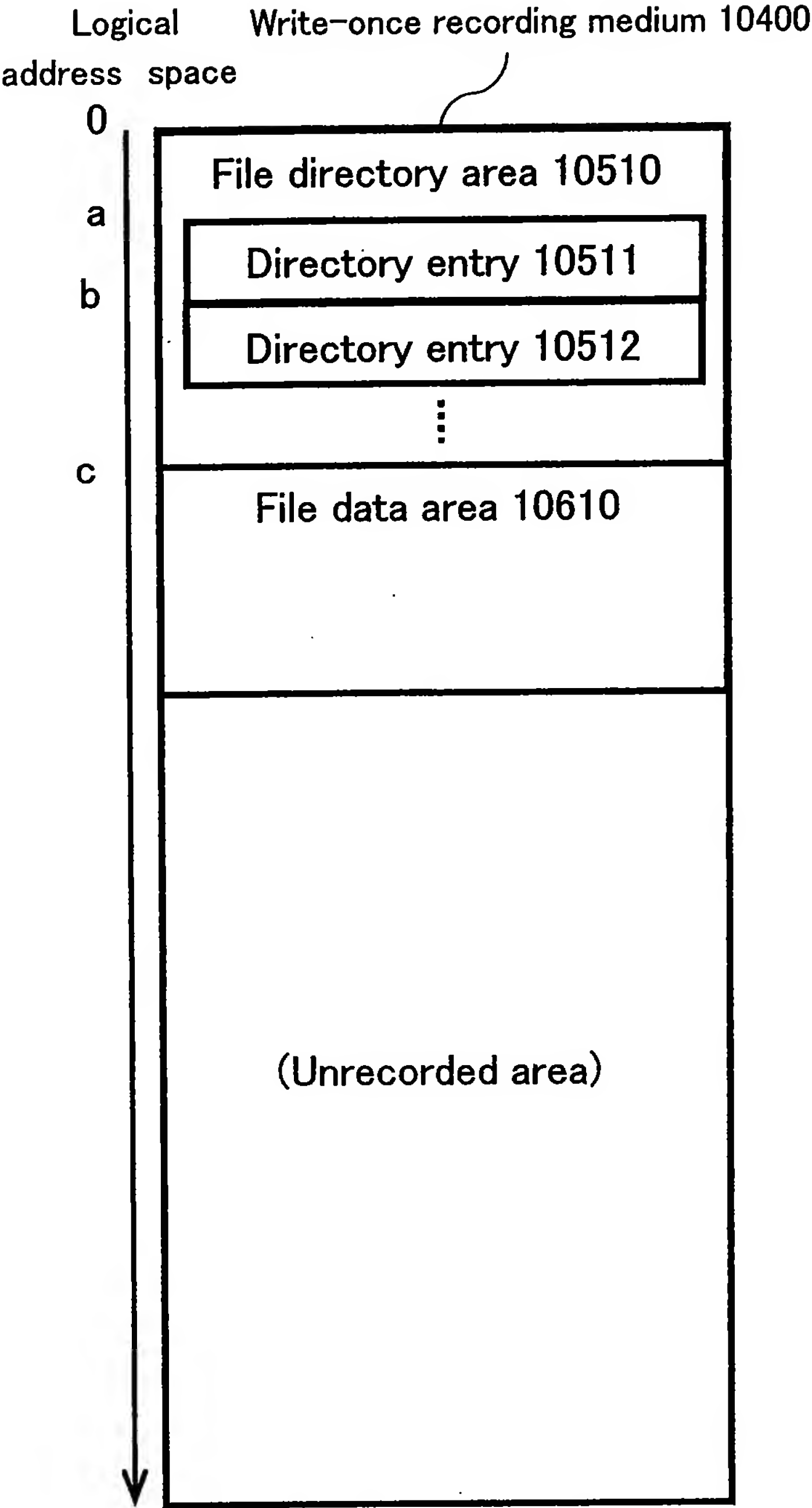


Fig. 35

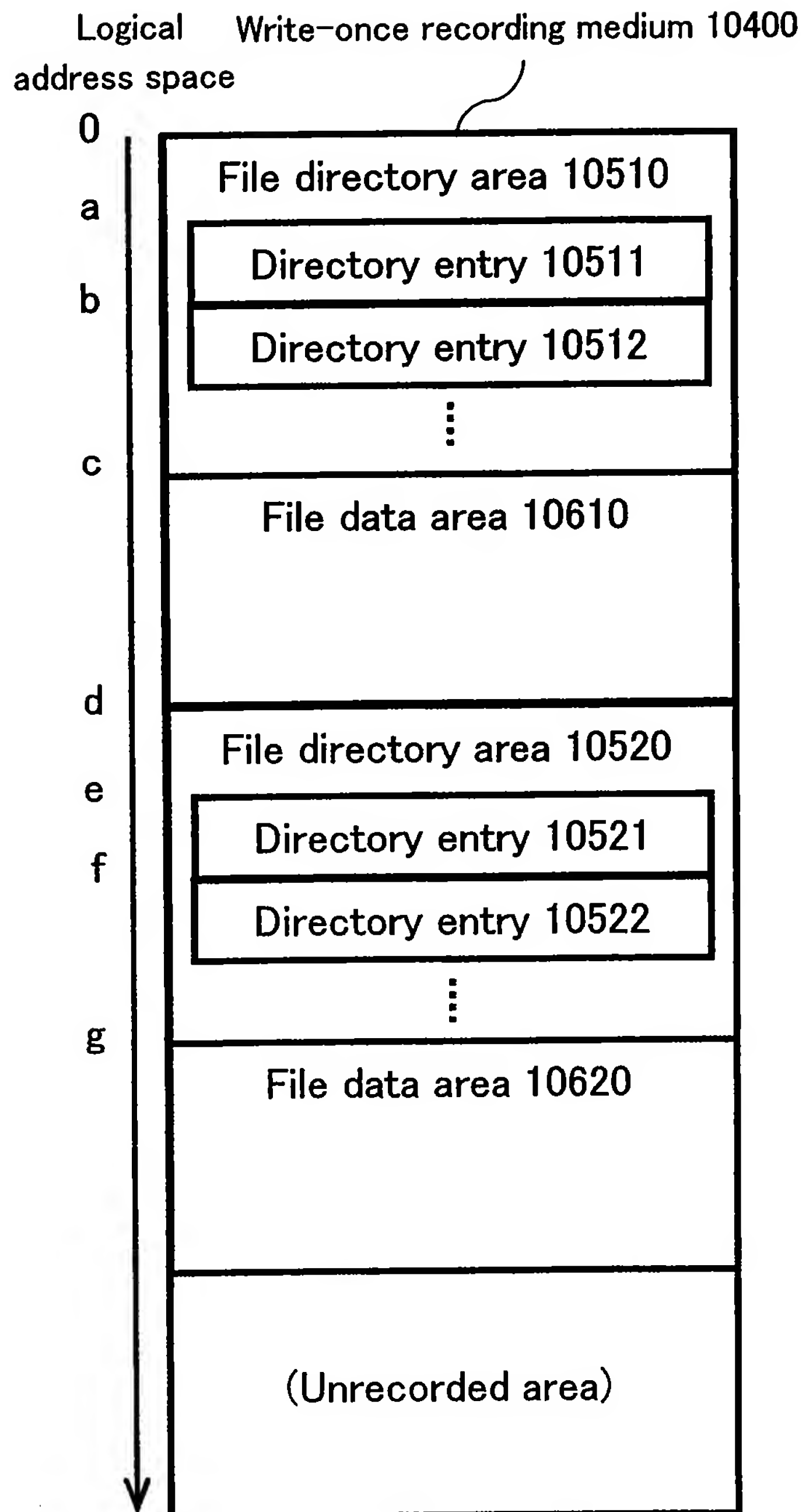


Fig. 36

(a)

100

| | |
|-------------------|--------------------------------------|
| Lead-in area 101 | ... |
| | Disc management information area 104 |
| | ... |
| Spare area 106 | ... |
| Volume space 109 | (Unrecorded area) |
| Spare area 107 | ... |
| Lead-out area 103 | ... |
| | Disc management information area 105 |
| | ... |

(b)

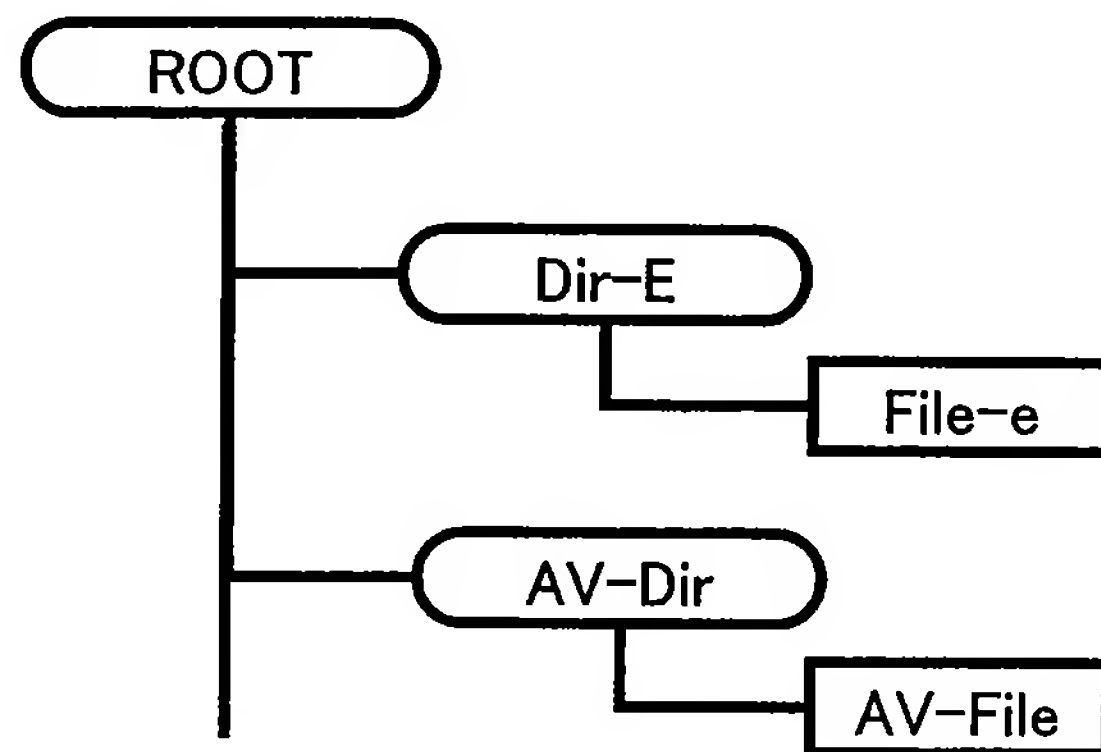


Fig. 37

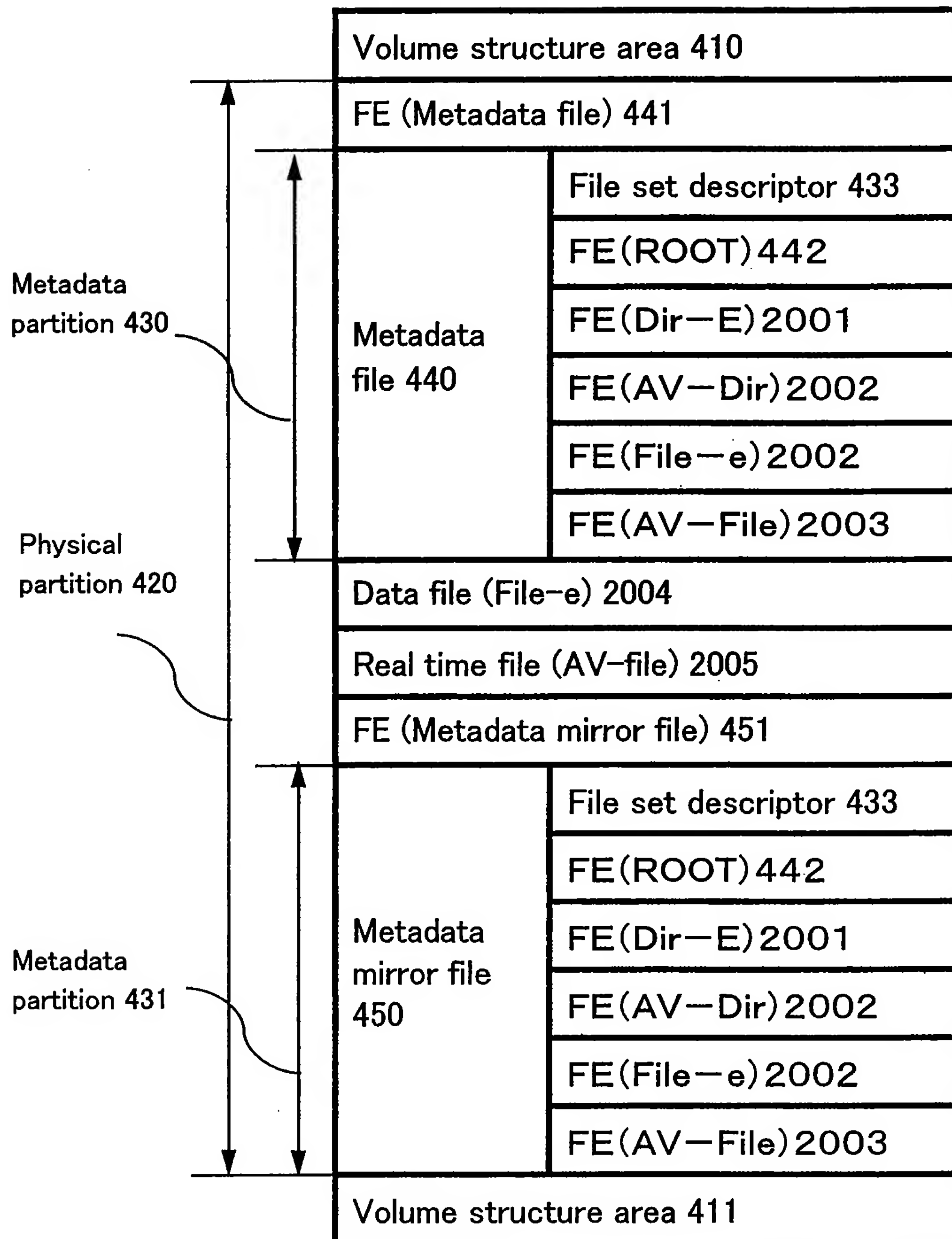


FIG.38

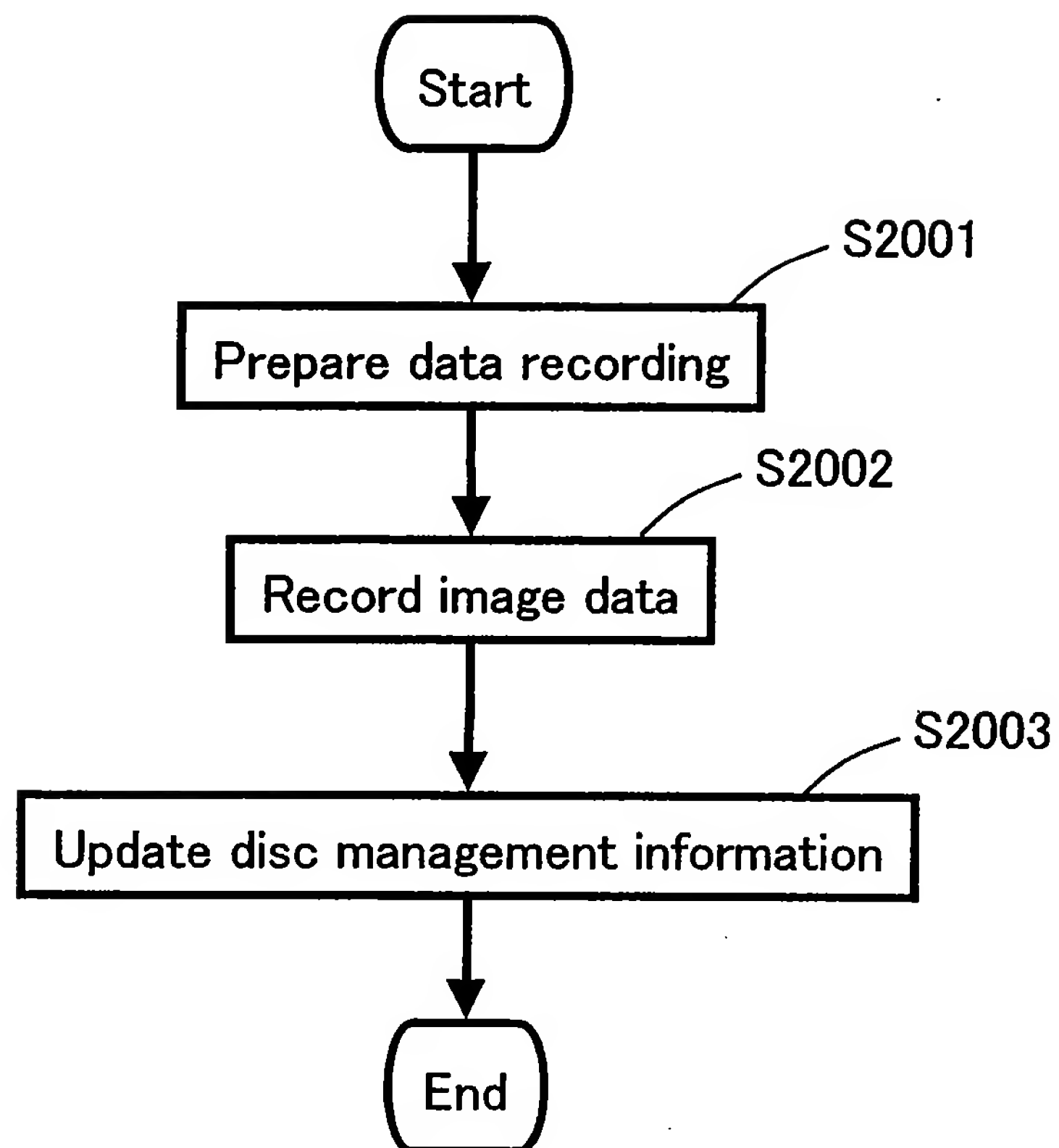


FIG.39

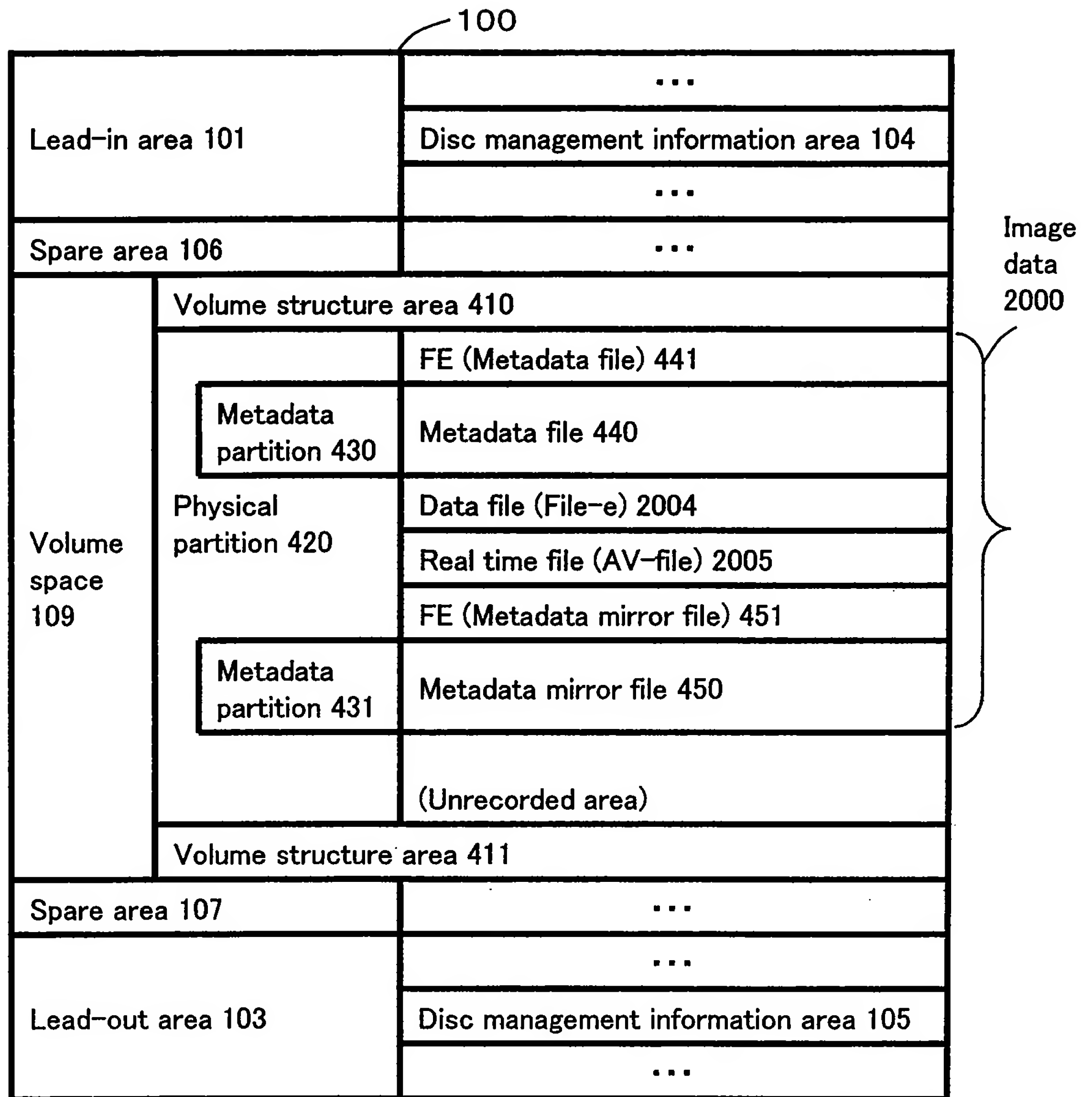


FIG.40

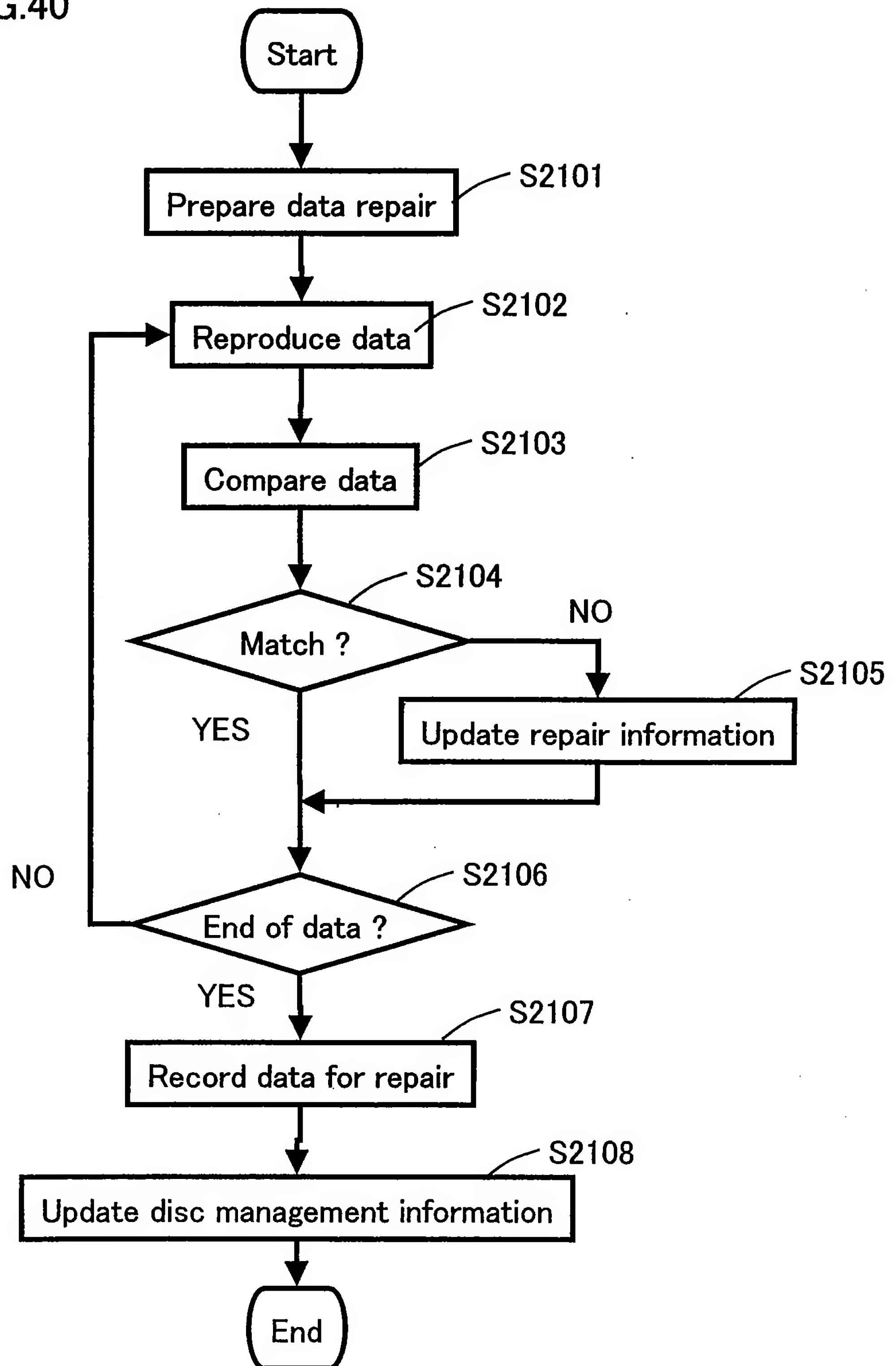


FIG.41

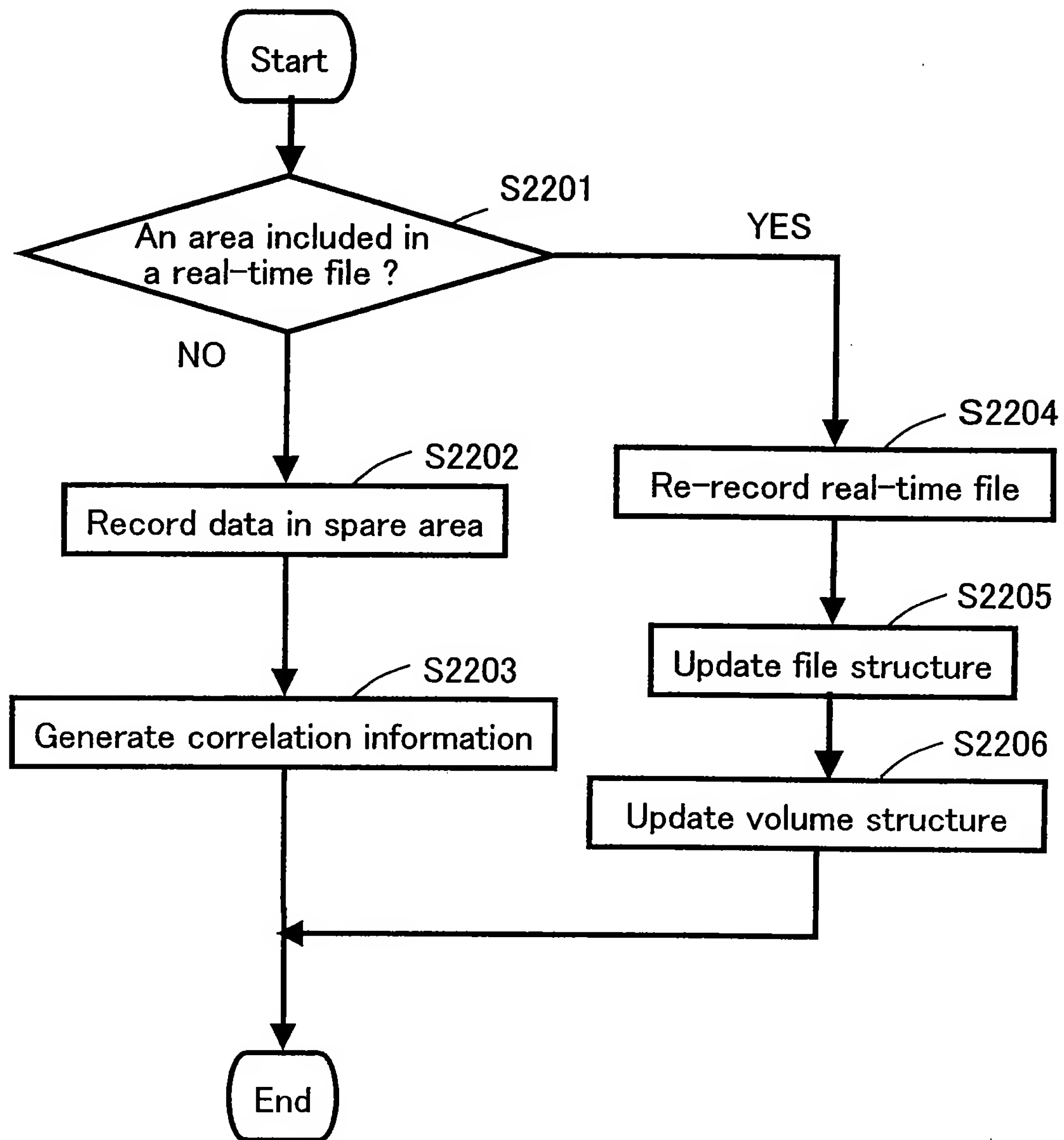


FIG.42

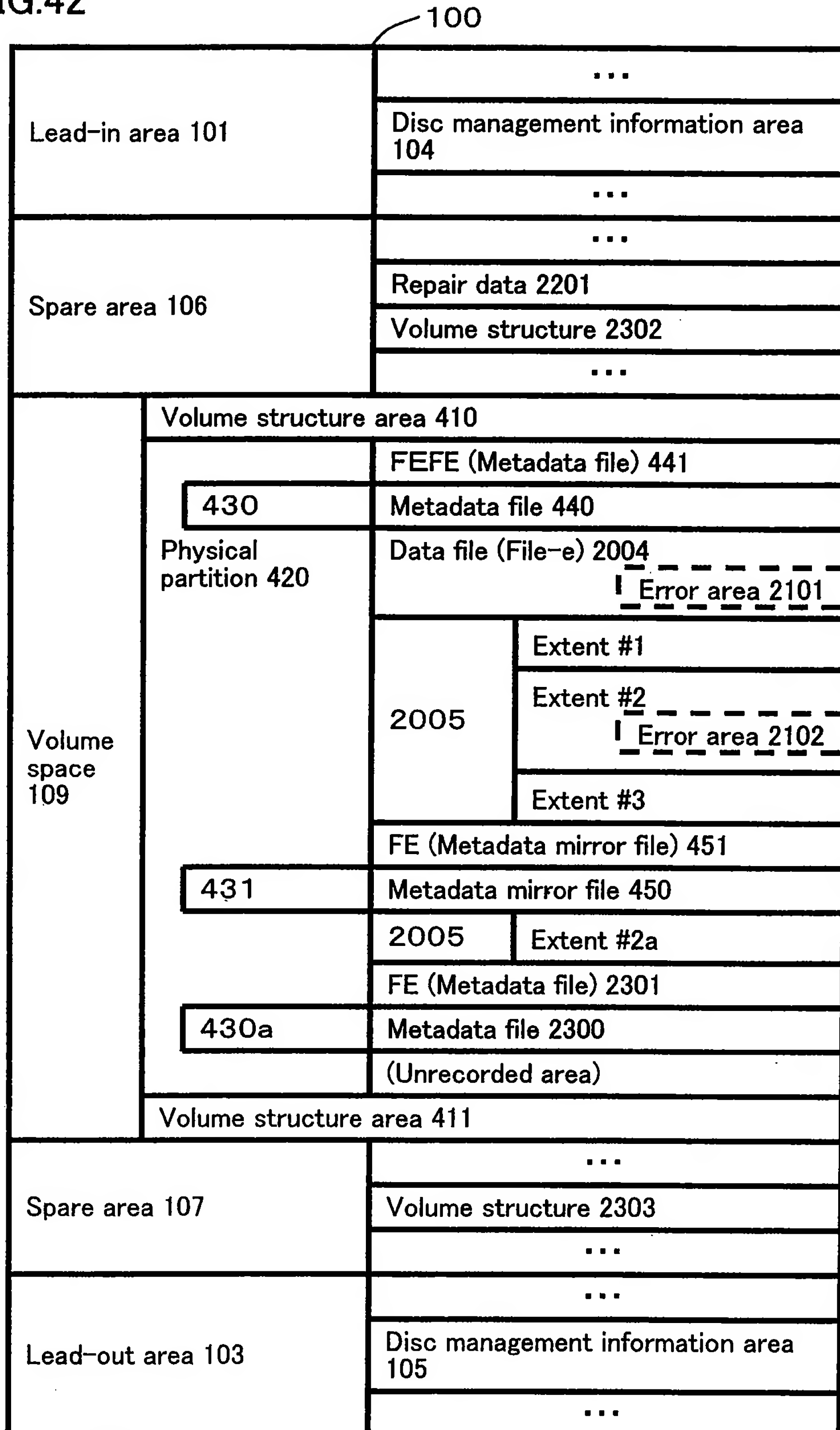


FIG.43

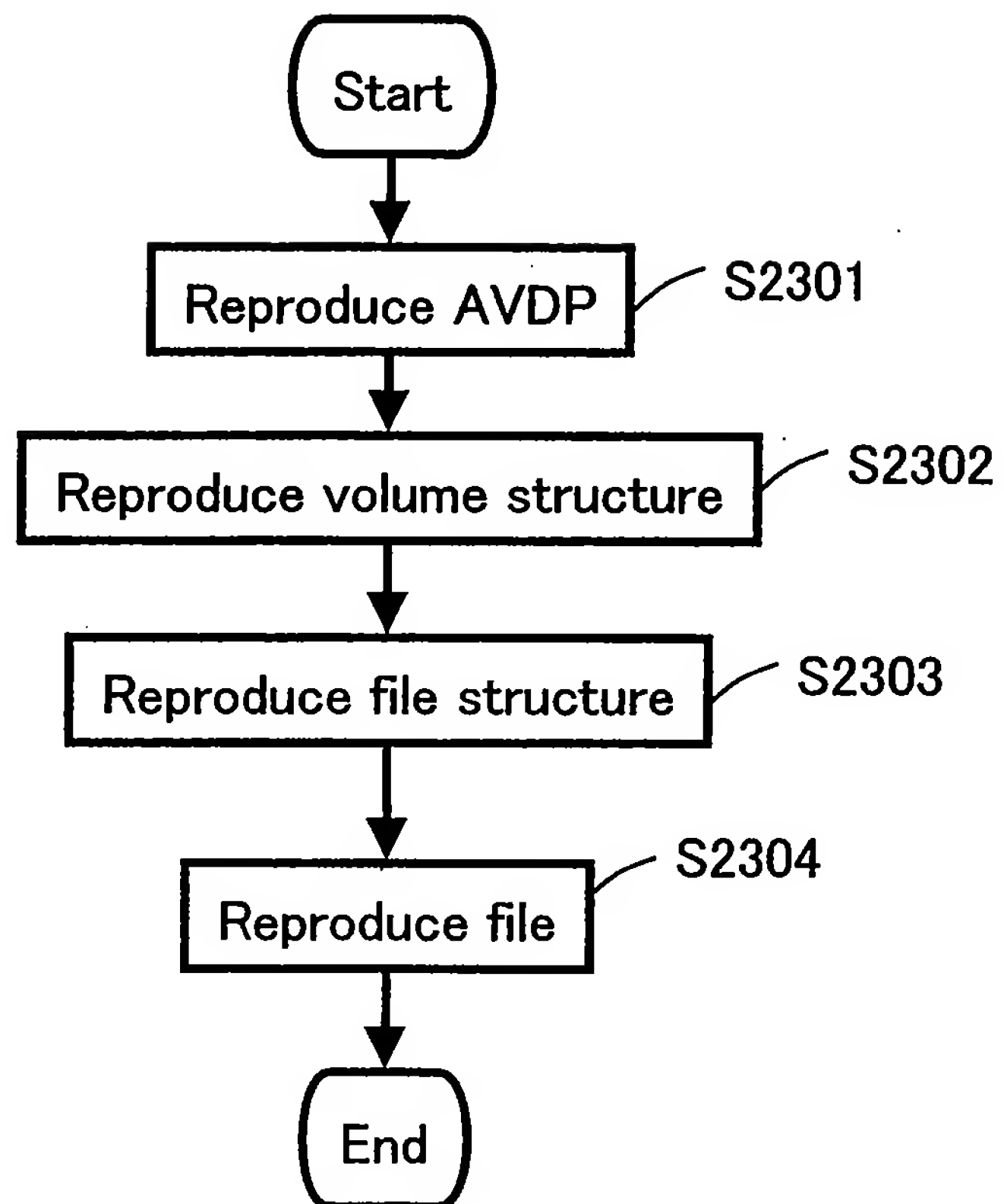


FIG.44

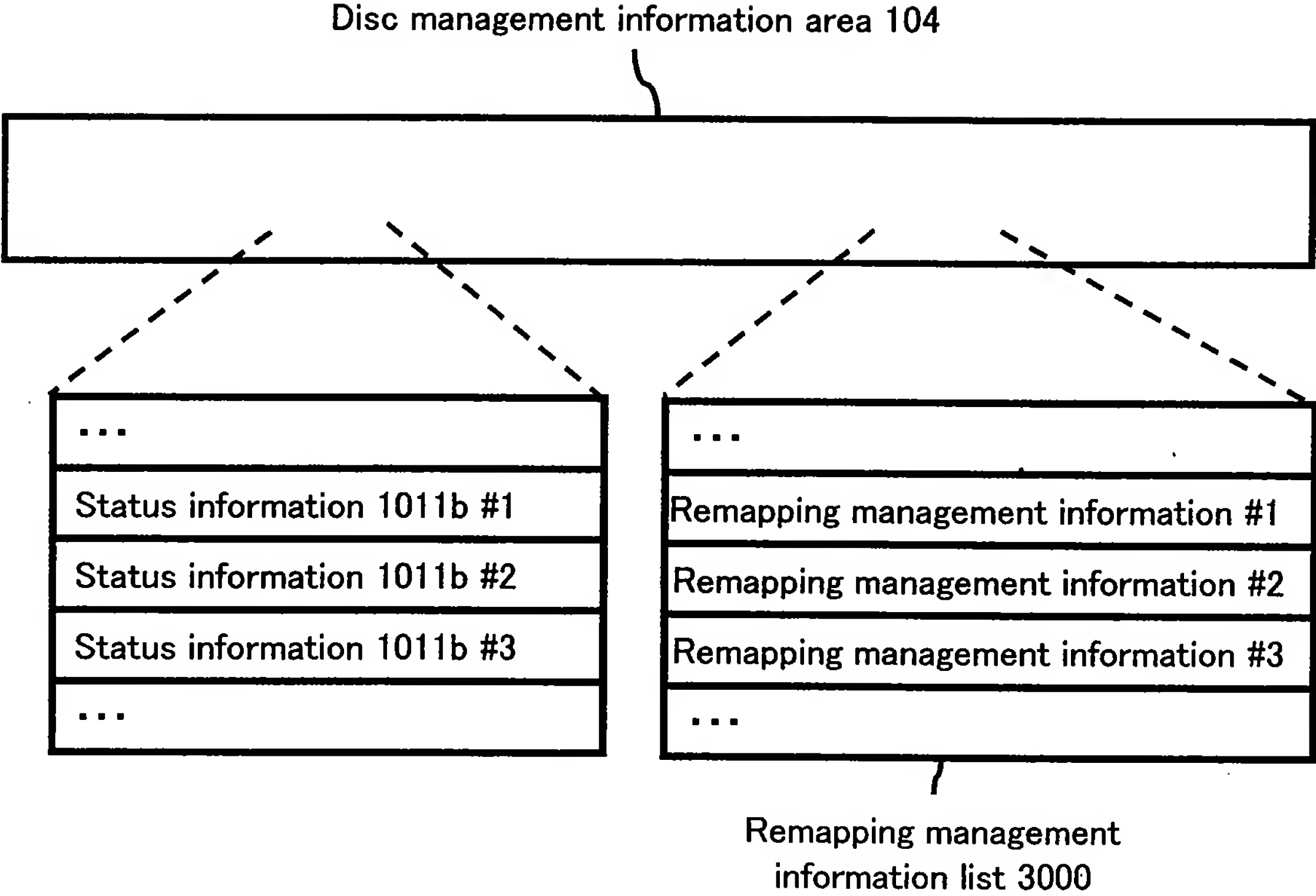


FIG.45

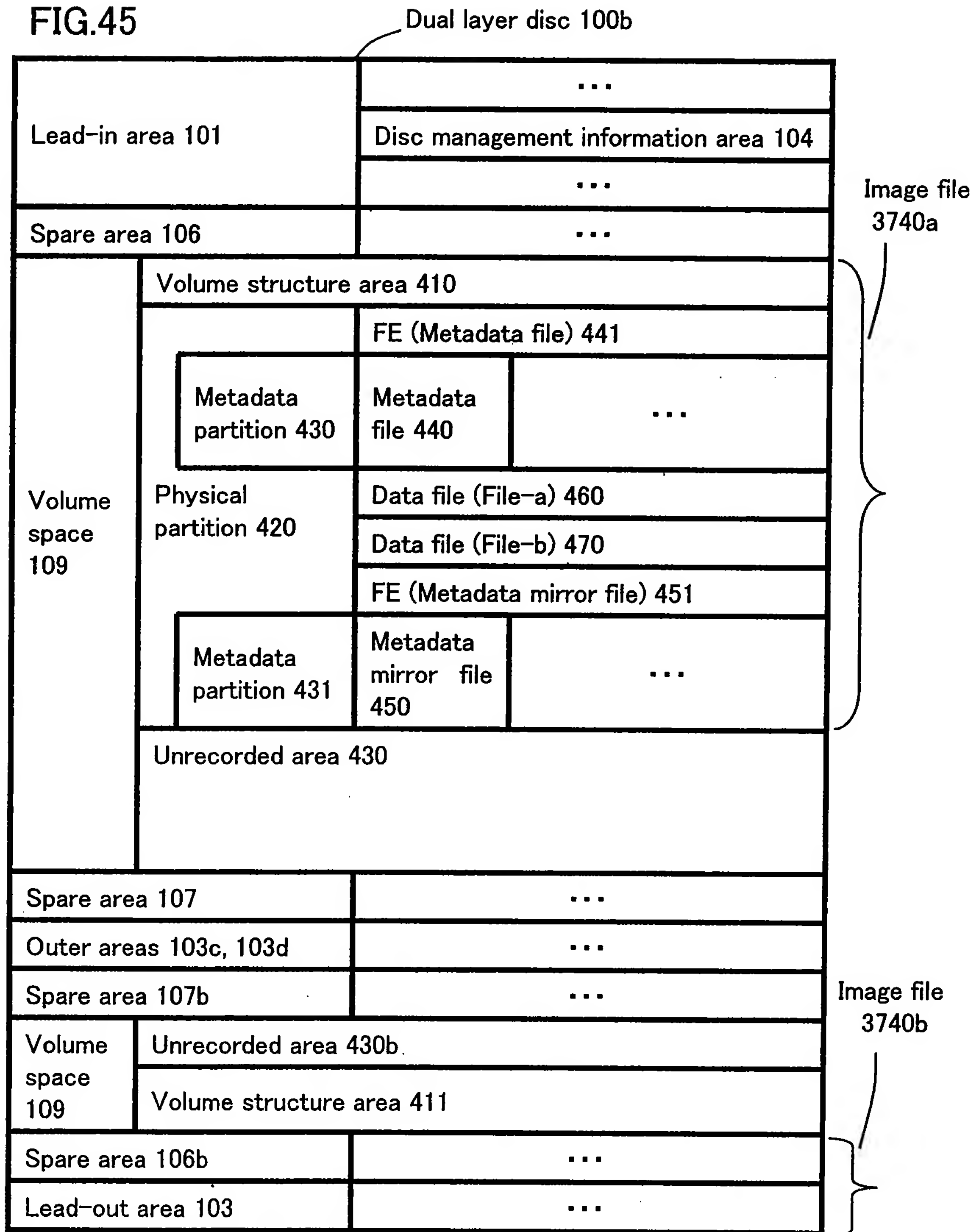


FIG.46

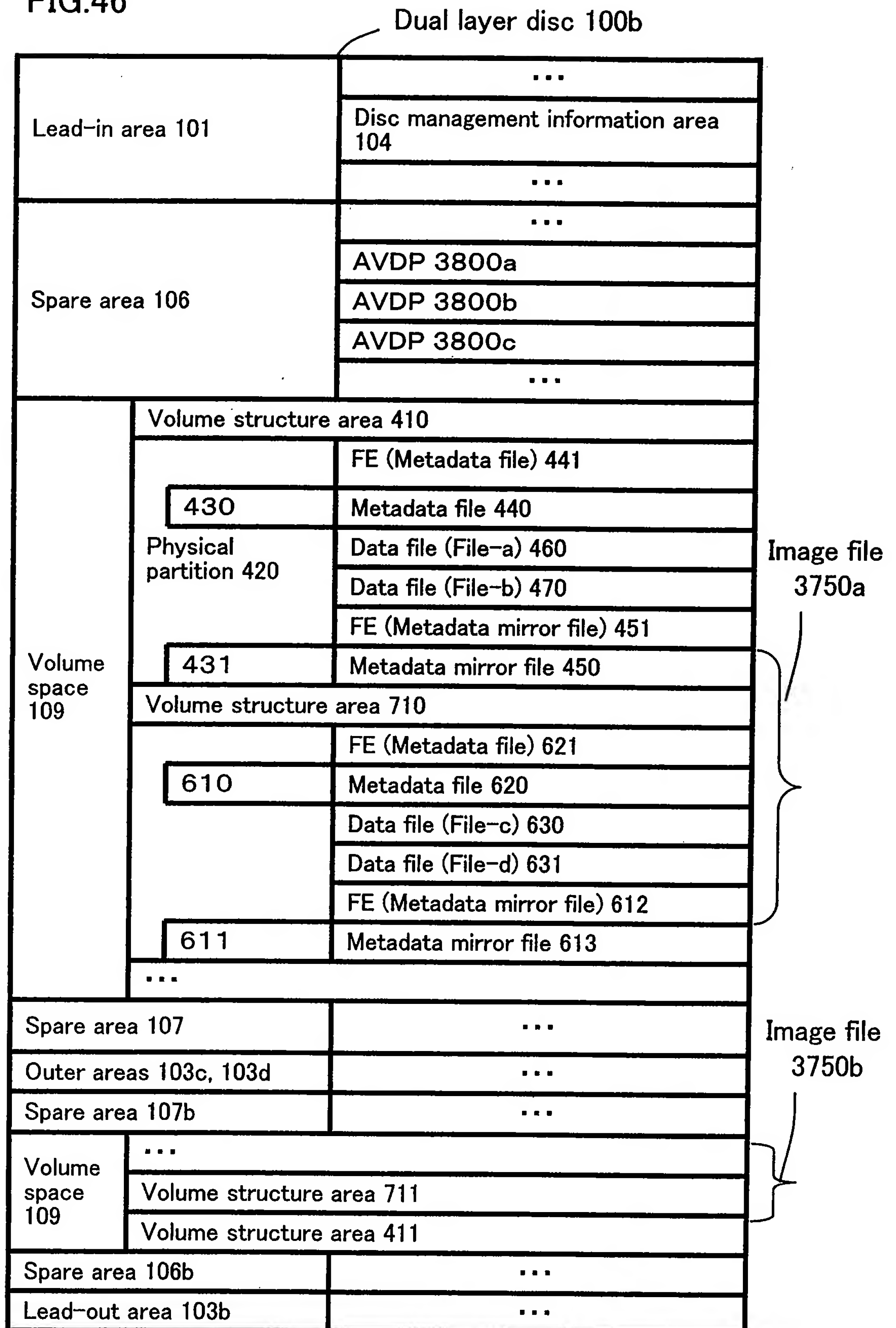


FIG.47

| Original location information 1012 | Replacement location information 1013 |
|------------------------------------|---------------------------------------|
| Location information of AVDP 3600a | Location information of AVDP 3800a |
| Location information of AVDP 3600b | Location information of AVDP 3800b |
| Location information of AVDP 3600c | Location information of AVDP 3800c |